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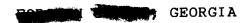


NATIONAL CAPITOL SYSTEMS, INC.



AIRBAG INVESTIGATION

CASE NO. 93-05



Contract No. DTHN 22-87-C-17169

Prepared for:

U.S. Department of Transportation National Highway Traffic Safety Administration Washington, D.C. 20590

NATIONAL CAPITOL SYSTEMS, INC.

AIRBAG INVESTIGATION

CASE NO. 93-05

COUNTY, GEORGIA

TECHNICAL REPORT

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The opinions, findings, and conclusions expressed in this publication are those of the authors and not necessarily those of the National Highway Traffic Safety Administration.

The crash investigation process is an inexact science which requires that physical evidence such as skid marks, vehicular damage measurements, and occupant contact points be coupled with the investigator's expert knowledge and experience of vehicle dynamics and occupant kinematics in order to determine the precrash, crash, and post-crash movements of involved vehicles and occupants.

Because each crash is a unique sequence of events, generalized conclusions cannot be made concerning the crashworthiness performance of the involved vehicle(s) or their safety systems.

NCSI Indepth Accident Investigation Team Airbag Accident Investigation NCSI Case 93-05 County, Georgia

SUMMARY

This is an in-depth study of an accident involving an airbag equipped 1991 Mercury Capri convertible and a 1986 Pontiac Grand Am. The accident occurred on the state of the hours, on Road, approximately 1.3 miles east of the county. Georgia in rural county. The accident was investigated on-site by the

In the vicinity of the accident, Road is a twolane undivided asphaltic aggregate road with one eastbound and one westbound travel lane. The roadway has a grade of +10 per cent for the Capri and -10 per cent for the Grand Am. The speed limit is 45 miles per hour. The roadway was wet from recent rain, but it was not raining when the accident occurred.

According to the police accident report, the Capri was traveling east on Road and the Grand Am was traveling west on Road. The Capri traveled into the path of the Grand Am. The right front of the Grand Am struck the right rear quarter panel of the Capri. The Capri rotated clockwise and the vehicles sideslapped, with the right side of the Grand Am striking the right side of the Capri. After the impacts with the Grand Am, the Capri departed the road on the north side and struck an embankment and came to rest approximately 21 feet east of the initial impact with the Grand Am. The Grand Am rotated clockwise and came to rest approximately 48 feet west of the initial impact with the Capri.

An interview was conducted with the driver of the Capri. Her statement was as follows: I was traveling along Road when my airbag suddenly and unexpectedly inflated. My vehicle did not strike anything prior to the inflation of the airbag. After the airbag inflated, I applied my brakes and stopped the vehicle in the road. After my vehicle was stopped, I was attempting to crawl from between the inflated airbag and the driver's seatback, and as I was moving from the driver's seat to the right front seat, the Grand Am struck my vehicle. The impact resulted in my striking the right side dash and windshield. My airbag remained tightly inflated after it went off and this was the reason I couldn't get out the driver's door and was trying to get out the right door when I was hit.

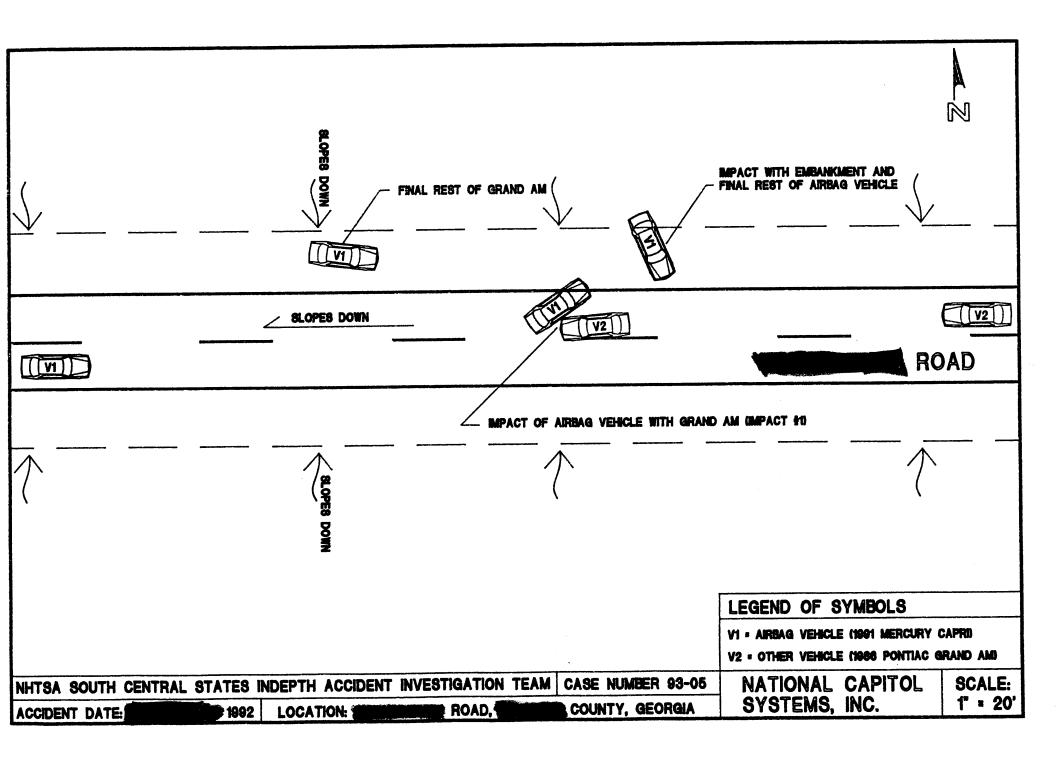
The driver of the Grand Am stated that the Capri spun out of control and into the westbound travel where it was struck by her vehicle.

During the inspection of the Capri, no evidence was found to support the argument that the airbag remained inflated tightly for an extended period of time. Also, it would be physically impossible for the Capri to travel any distance east of the point of impact if it was not moving at the time it was struck by the Grand Am, which was traveling west.

In the opinion of this investigator, the Capri was traveling east and was in motion at the time of the impact with the Grand Am. It may possible that the occupant contacts to the airbag, floor-mounted console, windshield, right dash and glove compartment door were from the driver, but appears that there may have been more than one occupant in the Capri.

The driver of the Capri and the driver and front right occupant of the Grand Am suffered serious injuries and were transported for medical treatment.

A CDC of 01-RZEW-2 was assigned to the damage to the airbag-equipped Capri from the initial impact with the Grand Am. Maximum residual crush to the right side of the Capri was approximately 18 centimeters, located a short distance forward of the rear axle. A CRASH 3 reconstruction of the Delta V (speed change) using CDC data only, resulted in an estimated total Delta V of 24 kilometers per hour for the Capri and 22 kilometers per hour for the Grand Am. These should be considered as estimates only, as the Grand Am was not inspected, but CDC's were assigned from photographs.



NCSI IN-DEPTH ACCIDENT INVESTIGATION AIRBAG ACCIDENT INVESTIGATION

FLEET - Private Owner LOCATION - Georgia CASE NO. - 93-05

IDENTIFICATION

Location/Street: Road

Area/Type: Rural

Accident Date/Time: 1992 hours

Notification Date: 1993

Investigating Police Agency:

Accident Type: Car / Car - Angle impact

Air Bag Vehicle

Occupant Injury Severity: Severe (AIS-4)

AMBIENCE

Viewing Conditions: Daylight

Weather: Cloudy

Precipitation: None at time of accident

Road Surface: Wet from recent rain

ROADWAY

Location: Road (County road)

Type: Arterial

Width: 5.8 meters

Number of Lanes: Two

Median: None

Surface Material: Asphaltic aggregate

Road Edge: Gravel shoulders

Traffic Density: Moderate

ROADWAY, CONTINUED

Coefficient Of Friction:

.70 (estimated)

Vertical Alignment:

10 % grade

Horizontal Alignment:

Straight

TRAFFIC CONTROLS

Signals/Signs:

None

Speed Limit:

45 miles per hour

VEHICLES

Airbag Vehicle

Vehicle #2

Year:

1991

1986

Make:

Mercury

Pontiac

Model:

Capri

Grand Am

Body Style:

Convertible

Four-door sedan

V.I.N.:

6MPCT01Z3M8*****

1G2NV69L3GC*****

Exterior Color:

White

Blue

Odometer Reading:

19243 miles

94101 miles

Securiflex Windshield:

Unknown

Windshield Damage:

Yes

Engine:

Unknown

Transmission:

Five speed w/ floor mounted

shifter

Steering:

Power-assisted

Brake System:

Power-assisted

Interior Padding:

Instrument panel,
door panels, armrests, head re-

straints, sunvisors, upper "A" pillars, steering wheel.

VEHICLES, CONTINUED

Driver Active Restraint System Availability:

Driver Active Restraint System Usage:

Usage Source:

Passive Restraint

System:

Active three-point lap and shoulder belt

None used

PAR and vehicle inspection

Driver airbag

VEHICLE DAMAGE

Airbag Vehicle

Vehicle #2 Object Struck:

Event Number: One

Right side Damage Location:

01-RZEW-2 CDC:

Tow Status: Towed

The right side of the Exterior Damage: Capri was struck by

the front right of the Grand Am in an angle impact. The principal direction of force was approximately 30 degrees on the Capri. Direct damage extended approximately 201 centimeters along the right side of the Capri. Direct plus

induced damage extended a length of approximately 220 centimeters along the right side of the vehicle, starting at approximately 85 centimeters behind the front axle. Maximum residual crush to the right

approximately 18 centimeters, located at C4.

side surface was

Vehicle #2

Airbag Vehicle

One

Front

12-FZEW-3 (Estimate)

Towed

The frontal and front right surface of the Grand Am struck the right side of the Capri in an angle impact. The Grand Am was not inspected by the author of this report. The CDC assigned in this report is from photos of the vehicle.

VEHICLE DAMAGE. CONTINUED

Crush measurements taken along the right side plane were:

C1 = 0.0 cmC2 = 11.0 cmC3 = 13.0 cm

C4 = 18.0 cm (est.)C5 = 6.0 cm (est.)

C6 = 0.0 cm

Damaged Components:

Damaged components included all frontal components, grille, hood, windshield, doors, roof, etc.

See photos.

Damaged components included all frontal components, hood, grille, windshield, etc. See photos.

Interior Damage:

Deployed airbag, cracked console, deformed right side instrument panel, broken right front air-conditioning vent, and windshield cracked by occupant contact.

Unknown

COLLISION SEQUENCE

Pre-crash:

At approximately hours on 1992, the case vehicle, a 1991 Mercury Capri convertible equipped with a driver airbag supplemental restraint system, was traveling east on Road, a rural road, A 1986 Pontiac Grand Am was traveling west on Road. The Capri traveled into the westbound lane into the travel path of the Grand Am.

Crash:

The front right corner of the Grand Am impacted the right side of the Capri. Following the initial impact, the vehicles sideslapped, with the right side of the Capri striking the right side of the Grand Am.

Post-crash:

After the sideslap, both vehicles rotated clockwise and departed the roadway. Capri struck the back slope of the ditch north of the road and came to rest approximately 21 feet east of the first impact facing south. The Grand Am traveled

approximately 48 feet after the first impact and came to rest on the north shoulder facing

east.

Police Activities: were notified of the accident at land arrived on site at

Rescue Activities: All three occupants of the vehicles were transported to hospitals for treatment.

VEHICLE VELOCITY ESTIMATES

A CRASH 3 computer reconstruction of the accident yielded a speed change (Delta-V) of 24 kilometers per hour for the Capri, with a longitudinal speed change of -21 kilometers per hour and a lateral speed change of -12 kilometers per hour. Delta-V values for the Grand Am were 22 kilometers per hour for total Delta-V with -21 kilometers per hour for the longitudinal component and 4 kilometers per hour for the lateral component. These values should be considered as estimates because the C values for the Grand Am were estimated from police photographs.

RELEVANT SAFETY ISSUES

Applicable Standards: FMVSS 208:

Occupant Crash Protection: The 1991 Mercury Capri was equipped with a factory installed driver supplemental airbag restraint system. The driver airbag was deployed during the crash.

HUMAN FACTORS/OCCUPANT DATA/AIRBAG VEHICLE

DRIVER DATA

Age: 25

Sex: Female

Height: 62 1/2" inches

Weight: 105 lbs.

Occupation: Business owner

Active Restraint
System Usage: None used

Usage Source: Police Accident Report

Vision: Apparently normal

Vehicle Familiarity: Drives daily

Route Familiarity: Unknown

Manner of Leaving Scene: Ambulance

Type of Medical Treatment: Hospitalized for 6 days

Physical State: Apparently normal

Psychological State: Apparently normal

DRIVER INJURIES

Injury Description	Severity	Source
Head injury with brain swelling and loss of consciousness	Severe (AIS-4)	Windshield
Lung contusions	Moderate (AIS-3)	Instrument panel
Kidney contusion	Moderate (AIS-2)	Instrument panel
Laceration to forehead	Minor (AIS-1)	Windshield
Abrasions to forehead	Minor (AIS-1)	Windshield

Injury Coding

	O.I.C. Body Region	Aspect	Lesion	System/ Organ	A.I.S. Severity	Injury Source	Direct/ Indirect Injury		
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DRIVER KINEMATICS

The driver was in an unknown position at the time of the crash and was not restrained by the active three-point lap and shoulder belt system of the Capri.

HUMAN FACTORS / OCCUPANT DATA / VEHICLE #2

DRIVER DATA

Age: 32

Sex: Female

Height: Unknown

Weight: Unknown

Active Restraint

System Usage: None used

Usage Source: Police Accident Report

Manner of Leaving Scene: Ambulance

Type of Medical Treatment: Unknown

DRIVER INJURIES

The driver of the Grand Am suffered unknown injuries in the crash.

OCCUPANT #2 DATA

Age: 4

Sex: Female

Height: Unknown

Weight: Unknown

Active Restraint

System Usage: Three-point lap

and shoulder belt

Usage Source: Police Accident Report

Manner of Leaving Scene: Ambulance

Type of Medical Treatment: Hospitalized

OCCUPANT INJURIES

The front-right occupant of the Grand Am suffered unknown injuries in the crash.

LIST OF ATTACHMENTS

Appendix A: Police Accident Report

Appendix B: NASS Data Collection Forms

Appendix C: Airbag Supplement Form

Appendix D: CRASH 3 Output

OTHER SOURCES OF DATA

Interview with driver of airbag vehicle

Interview with investigating police officer

SELECTED PRINTS NCSI Case No. 93-05



1. Pre-impact travel path of the 1991 Mercury Capri convertible (airbag equipped vehicle) east on Road in Georgia.



Path into impact and area of impact with the 1986 Pontiac Grand Am.



3. Path of Capri from impact with the Grand Am to impact with the road edge embankment and final rest.



Opposite view from beyond impact with the Grand Am.



Opposite view from embankment impact and final rest.



Pre-impact travel path of the 1986 Pontiac Grand Am west on Road.



7. Path into impact and area of impact with the Capri.



Path of the Grand Am from impact to final rest.



Opposite view from beyond impact.



Opposite view from final rest.



11. Front-left overall view of the 1991 Mercury Capri convertible (airbag vehicle).



Left side view.



13. Rear-left view.



Rear view showing damage from impact with the embankment (impact #3).



Second rear view of damage from impact #3.



16-17. Views along rear stringline from the left side and right side.



18. Rear-right view.



19. Right side view of damage from first impact with the Grand Am.



20-21. Views along the right side plane showing crush from the first impact with the Grand



22. Right side view showing damage from the sideslap with the Grand Am (impact #2).





23-24. Interior views showing obvious occupant contacts to windshield and right instrument panel.



25. Right instrument panel showing obvious occupant contact points.



View of right instrument panel and right door.



27-28. Front seats and seatbacks showing possible contacts and obvious contact to console.



29-30. Views of airbag equipped steering wheel.



Overall view of deployed airbag showing possible occupant contact.



32. Closeup view of possible make-up transfer on deployed airbag.



Views of slight tear in airbag material and unobstructed vent holes in the back of the airbag.

POLICE PHOTOGRAPHS NCSI Case 93-05







Photos of the 1991 Mercury Capri convertible (light colored vehicle) and 1986 Grand Am (dark vehicle) at final rest.





Photos of damage the Grand ${\bf Am}$. These are copies of the police photos taken at final rest.

SLIDE INDEX NCSI Case 93-05

SCENE SLIDES

- 1. Pre-impact travel path of the 1991 Mercury Capri convertible (equipped with a driver airbag) east on Record Road in Record County, Georgia.
- Path into impact with the 1986 Pontiac Grand Am.
- Area of impact with the Grand Am.
- 4-6. Path of the Capri from impact with the Grand Am impact with the roadside embankment and final rest.
- 7. Opposite view from beyond impact with the Grand Am.
- Opposite view from beyond final rest.
- 9. Pre-impact travel path of the 1986 Pontiac Grand Am west on Research Road.
- 10. Path into impact with the Capri.
- 11. Area of impact of the Grand Am with the Capri.
- 12-14. Path of the Grand Am from impact with the Capri to final rest.
- 15. Opposite view from beyond impact with the Capri.
- 16. Opposite view from beyond final rest.

VEHICLE SLIDES

- 17. Frontal view of the 1991 Mercury Capri convertible (equipped with a driver airbag).
- 18. Front-left overall view.
- 19. Rear-left overall view.
- 20. Rear view.
- 21-25. Views of damage to the rear from impact with the embankment (impact #2).
- 26. Right side overall view.
- 27-29. Views of damage to the right side from impact with the Grand Am (impact #1).
- 30. Front-right overall view.
- 31. Interior view of driver's door.
- 32-34. Views of airbag-equipped steering wheel.

- Overall views of front instrument panel, windshield and steering assembly. Occupant contacts were noted to the airbag, right side of the windshield, and right side instrument panel.
- 39. View of right front door interior.
- 40. View of driver's knee bolster.
- View of right dash showing deformation from occupant contact.
- 42-43. Views of driver and front-right seatbacks.
- 44-45. Views of floor mounted console and shifter showing occupant contact and deformation.
- 46-49. Views of deployed airbag showing make-up transfer and tear in airbag fabric.

























































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Appendix A

Police Accident Report

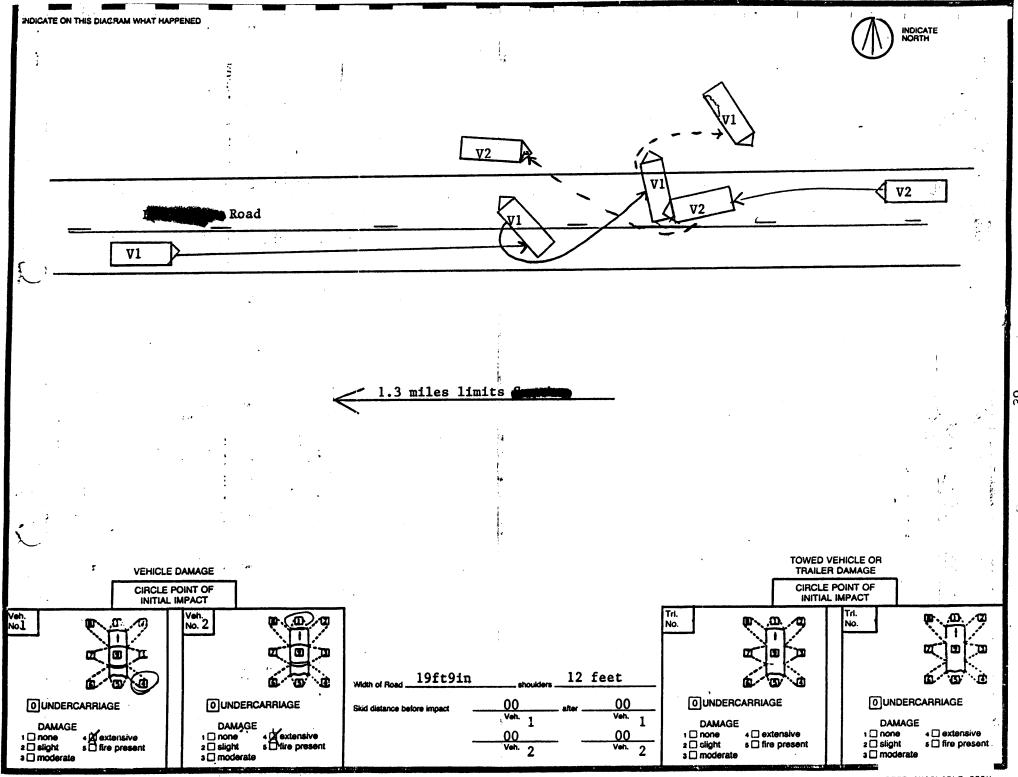
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stopped stop	Stopped 9 passing driveway 11 entering/leaving 4 stopped 9 passing driveway 4 straight 11 entering/leaving 4 stopped 9 passing driveway 5 straight 11 entering/leaving 4 stopped 9 passing driveway 5 straight 11 entering/leaving 4 stopped 9 passing driveway 5 straight 11 entering/leaving 4 straight 11 entering/leaving 4 straight 11 entering/leaving 4 straight 11 entering/leaving 5 straight 11 entering/leaving 4 straight 11 entering/leaving 4 straight 11 entering/leaving 5 straight 11 entering/leaving 4 straight 11 entering/	tunning right	t	7 Dacking		10					anes		
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VEHICLE # 1			VEHICL	E# 2				4.17					r.
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CONTRIBUTING FACTORS VISION OBSCUF (check one or more) 1 2 not obscure				IBUTING FACTORS one or more)		N OBSC not obscu	URED BY red	· .	SPE	ED LIMIT	4		-1
1 no contributing factors 2 building	ESTIMATE	ED SPEED45	1 no	contributing factors		ouilding			EST	MATED	SPEED.	40	_
2 ☐ driver under influence 2 ☐ blinding hea 2 ☐ surface defects 4 ☐ blinding sun				ver under influence			eadlights	•	***	rrı0 00	, moor		1
3 ☐ surface defects 4 ☐ blinding sun 4 ☐ mechanical or veh failure 5 ☐ parked vehi	•	CONTROL ontrol present		rface delects schanical or veh failure	_	blinding s parked v	•			FFIC CO no contr	ol preser	nt	1
5 ☐ driveriess vehicle s ☐ trees, bushe	es 2 ☐ traffic	c signal	5 □ dri	verless vehicle	• 🗆	trees, bu	shes		2 🗆	traffic si	gnel		L
6 ☐ driver lost control 7 ☐ rain, snow,				iver lost control		rain, ano				r signal			
7 misjudged clearance on windshie 8 improper backing 6 other		ing sign or yield sign		sjudged clearance proper backing		on winds other	hield) warning 1 stoo or	sign yleld sigr	,	1
9 Changed lanes improperly	€ □ no po	assing zone		anged lanes improperly					• 🗆) no pass	ing zone		1
10 ☐ parked improperly DIRECTION OF				rked improperty		CTION C	OF TRAV	EL	7/2	lanes			
11 no signal/improper signal 12 lollowing too close N S S	E □ W (so	ecify)		signal/improper signal llowing too close		Пе	O E #	/w	8 [other _ (speci	M		\neg
13 □ exceeding speed limit		•	40 🗆 00	ceeding speed limit			- M	**		(apou	• • • • • • • • • • • • • • • • • • • •		
14 too fast for conditions VEHICLE COND		OF LANES 2		o fast for conditions			NOITION		NUI	MBER O	FLANES		4
15 disregard stop sign/signal 1 17 no known d 16 □ wrong side of road 2 ☐ tire failure		NOPERATIVE		sregard stop sign/signa rong side of road		no know tire failu	n defects	3	,	ACE INC	PERATI	ve	ı
17 improper passing 3 in brake failur	• 1 TE	S 2 TNO		proper passing		brake fa					2 DK		1
18 ☐ improper turn 4 ☐ improper lig	yhts	7		proper turn		imprope				-			
19 ☐ improper passing of stopped 5 ☐ steering fall				nproper passing of stop	: -	steering				HICLE C			
school bus 6 ☐ stick tires 20 ☐ pedestrian violation 7 ☐ other failure		stely owned		chool bus edestrian violation		slick tire other fai				Zi private ☐ comme	ly owned		
21 Galled to yield	3 Dolic			alled to yield	/L	OUTOT RE				_ continu	r Cala		
22 disregard police officer (specify)	4 🔲 fire			isregard police officer		(specif	y)] fire			
23 weather conditions	5 ☐ scho		_	eather conditions						school			
24 Object or animal 25 Oriver condition	6 ☐ othe 7 ☐ militi	r govt. owned	_	bject or animal river condition						☐ other (☐ militar)	jovt. own	ed	
25 Other	/⊔mmiii . 8 □ othe		26 □ 0							LJ mircar) □ other			
(specify)	, , , ,	•		(specify)	- 								- 1
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1 M angle intersecting 4 ☐ sideswipe-same 2 ☐ head on direction	7 ☐ struck object 8 ☐ pedestrian	1 X on roadwa 2 On should		daylight	1□dry 2≥wet				☐ clear ② cloud	··.	4 □ 4 5 □ 1	snow/slee ioa	τ .
3 ☐ rear end 5 ☐ sideswipe-opposite		3 ☐ off roadwa] dawn	3Dano			4	rain	•	8 D C		
direction	10 ☐ other non-collision	4 🗆 median	40	dark-lighted	4□oth			1 1					
6 ☐ overturned		5 □ ramp	5 🗆	dark-not lighted			cify)	1		•			
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OBJECT STRUCK 7 embankment 1 guard rall a highway sign	PEDESTRIAN U.I. ped#1 1 lyes :	a' lan a' lunk	PEDESTRIAN		6-other wo	•	bao		TAKEN	ŀ			
1 ☐ guard rail s ☐ highway sign 2 ☐ utility or other pole 9 ☐ construction	ped#2 1 lyes	•	2-crossing at		7-playing r 8-standing	•			FROM SCENE		EETV EC	QUIP. IN 1	ICE.
3 ☐ tree equip/material	ped#3 1 lyes		3-walking w/tr		9-off roads		ay		SCENE		eatbelt	ZOIF. IN	بادن
4 ∐ bridge 10 ☐ deer	ped#4 1 lyes		4-walking aga	ninst traffic 1	o-other			1	1-yes	2-h	amess &	seatbelt	
5 median wall 11 other animal 6 ditch/culvert 12 other	ped#5 1 lyes		5-pushing or	working on veh	(5	pecify)			2-no _		elmet		٠.
6 ☐ ditch/culvert 12 ☐ other(specify)	ped#6" 1 "lyes!	2 FNO 3 EURK					•	~~~		1	hild restr property		٠
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Injured taken to: Straight and level 2 Straight on grade 5 Curve on grade 5 Curve on hillorest	1 concrete 2 black top 3 tar and gravel 4 dirt 5 gravel e other (specify) Address Cit	1 no defects 2 defective sh 5 holes, deep 4 loose mater on surface 5 road under 6 water stand 7 polished su 8 other	nuts, bumps ital construction ling	DRIVER VEH. 1 M DRIVER VEH. 2 M PHOTOGRAPHS	1-kil 2-se 3-vis 4-co	ed rious ible mplaint	Verh. No.	1-not 2-trap 3-eject	ejected ped ted NU Code 2	5-0 (6-a 7-a 0-a	hild restr improper iir bag inknown none	Safety Equip. in use	M
curve and level 2 straight on grade 5 curve on grade 5 curve on hillorest	1 concrete 2 black top state and gravel 4 dirt 5 gravel 6 other (specify)	1 no defects 2 defective sh 3 holes, deep 4 loose mater on surface 5 road under 6 water stand 7 polished su 8 other	nuts, bumps ital construction ling	DRIVER VEH. 2 MARCH PHOTOGRAPHS TAKEN:	1-kil 2-se 3-vis 4-co	ed rious sible mplaint Sex F YES NO	Voh. No.	1-not 2-trap 3-eject	INJ Code 2 2	Taken from Scens 1 1	hild restringroper in the page of the page	Safety Seque, in use 0 0 2	M a n.
1 straight and level 2 straight on grade 5 curve on grade 5 curve on hillorest	1 concrete 2 black top 3 tar and gravel 4 dint 5 gravel 9 other (specify) Address Cin	1 no defects 2 defective sh 3 holes, deep 4 loose mater on surface 5 road under 6 water stand 7 polished su 8 other	nuts, bumps ital construction ling	DRIVER VEH. 2 MARCH PHOTOGRAPHS TAKEN:	1-kil 2-se 3-vis 4-co	ed rious sible mplaint Sex F YES NO	Voh. No.	1-not 2-trap 3-eject	INJ Code 2 2	Taken from Scens 1 1	hild restringroper in the page of the page	Safety Equip. in use	M a n.
curve and level 2 straight on grade 5 curve on grade 5 curve on hillorest	1 □ concrete 2 ☑ black top 3 ☐ tar and gravel 4 □ dirt 5 □ gravel e □ other ────────────────────────────────────	1 no defects 2 defective sh 3 holes, deep 4 loose mater on surface 5 road under 6 water stand 7 polished su 8 other	nuts, bumps ital construction ling	DRIVER VEH. 2 MARCH PHOTOGRAPHS TAKEN:	1-kil 2-se 3-vit 4-co	ed rious ible mplaint Sex F YES NO	Voh. No.	1-not 2-traps 3-eject	NU Code 2 2 2	Taken from Scens 1 1	hild restringroper in the page	Safety Seque, in use 0 0 2	M a n.

cident No	12-00-00-00	Agency NCIC No.	Date: 92	Georgia Uniiorm Motor Vehicle Accident Report
Witness — I	Name		Address	Phone
				•
,				
·				
EMARKS	Vehicle #1 wa	as eastbound on	Road. V	ehicle #2 was westbound on
				icle and spun into path of Vehicle #2.
				er panel with the right front.
	Area of impac	ct was approximately 5	feet 2 inch	es from the edge of the roadway (measured
				chicle #1 spun clockwise and came to rest
1	approximatel	y 21 feet from point o	f impact are	a; Vehicle #2 rotated clockwise and
	came to rest	approximately 48 feet	from area o	f impact. Driver of Vehicle #1 stated
	that she did	not remember what hap	pened to cau	se her to lose control of her vehicle.
	Driver of Ve	hicle #2 stated that V	ehicle #1 ju	st suddenly began to spin out of control.
	Roadway was	wet from recent rain a	it time of ac	cident however; it was not raining at
	time of acci	dent.		
			·	
1		· ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` `		
				•
1				graph of
I .				
4				
. :				1 1
.]	<u>-</u>			
Report	I.			page 2 of 2



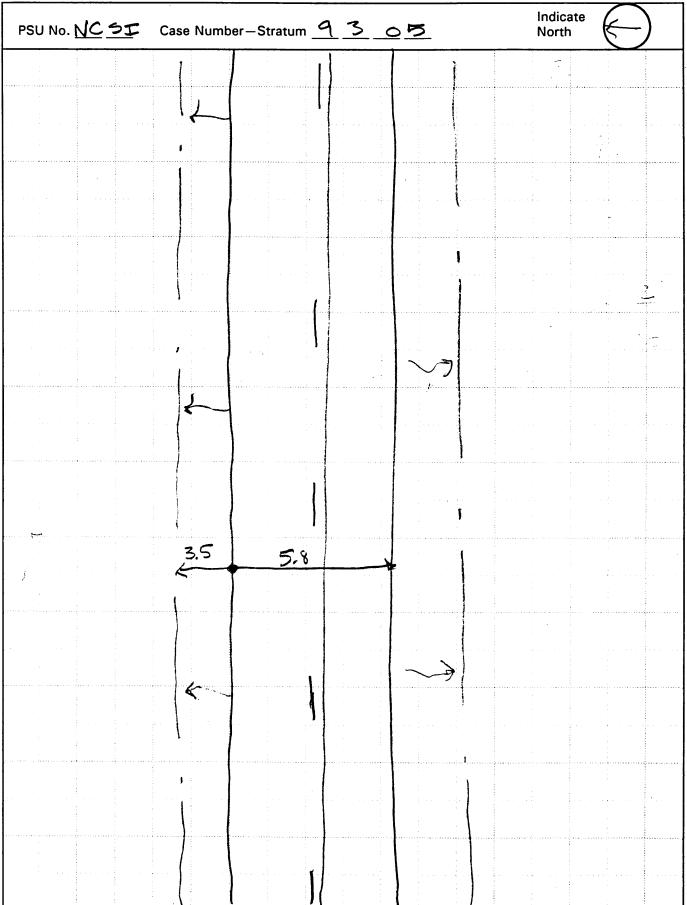
Appendix B

NASS Data Collection Forms

ACCIDENT COLLISION DIAGRAM

BEST AVAILABLE COPY

National Highway Traffic Safety Administration NATIONAL ACCIDENT SAMPLING SYSTEM CRASHWORTHINESS DATA SYSTEM





U.S. Department of Transportation National Highway Traffic Safety

ACCIDENT COLLISION MEASUREMENT TABLE

NATIONAL ACCIDENT SAMPLING SYSTEM CRASHWORTHINESS DATA SYSTEM

Administration Primary Sampling Unit Number NC SI Case Number-Stratum 9 3 05 **ACCIDENT COLLISION DIAGRAM CRASH DATA** LEVEL II (Cont'd) LEVEL I PHYSICAL EVIDENCE ABSENT physical evidence is present: VEH. #1 VEH. #2 VEH. #3 * document reference point and reference To be accomplished when there is no line relative to physical features present physical evidence present at the scene: at the scene **Heading Angle** * approximate vehicle orientation at impact * scale documentation of all accident and final rest induced physical evidence Surface Type * applicable road/roadway delineation (e.g., * scaled documentation of all roadside curbs/edge lines, lane markings, median objects contacted markings, pavement markings, etc.) Surface Condition * roadway surface type and condition of applicable traffic controls (e.g., speed applicable roadways limit) Grade (v/h) grade measurements for all applicable north arrow placed on diagram roadways and at location of rollover Measurement (between impact initiation * sketch required and final rest) * scaled representations of the vehicle(s) at pre-impact, impact, and final rest based LEVEL II upon either: Grade (v/h) PHYSICAL EVIDENCE PRESENT Measurement a) physical evidence, or (at location of In addition to the level I tasks noted above, the following must be accomplished when rollover initiation) b) reconstructed accident dynamics Reference line: Reference Point: Distance and Direction Distance and Direction Item from Reference Line from Reference Point NO EVIDENCE

Item	Distance and Direction from Reference Point	Distance and Direction from Reference Line
,		
	·	
	·	

Administration

U.S. Department of Transportation National Highway Traffic Safety

ACCIDENT FORM

NATIONAL ACCIDENT SAMPLING SYSTEM CRASHWORTHINESS DATA SYSTEM

1. Primary Sampling Unit Number

NCSI

2. Case Number - Stratum

9305

IDENTIFICATION

3. Number of General Vehicle Forms Submitted

02

4. Date of Accident (Month, Day, Year)



5. Time of Accident

1235

Code reported military time of accident.

NOTE: Midnight = 2400

Unknown = 9999

SPECIAL STUDIES - INDICATORS

Check (1) each special study (SS14-SS18 below) that has been completed; code 1 for the checked special studies and 0 for the special studies not checked.

6. ___SS14 Fatal AOPS

0

7. ___SS15 Administrative Use

0

8. ___SS16 _____

0

9. SS17

0

10. SS18

0

NUMBER OF EVENTS

11. Number of Recorded Events in This Accident

04

Code the number of events which occurred in this accident.

ACCIDENT EVENTS

For each event that occurred in the accident, code the lowest numbered vehicle in the left columns and the other involved vehicle or object on the right.

Accident Event Sequence Number	Vehicle Number	Class Of Vehicle	General Area of Damage	Vehicle Number or Object Contacted	Class Of Vehicle	General Area of Damage
12. <u>0</u> <u>1</u>	13. <u>Q</u>	14. <u>O</u> [15. <u>[Z</u>	16. <u>62</u>	17. <u>02</u>	18. <u> </u> F
19. 0 2	20. <u>O l</u>	21. <u>O</u>]	22. <u>R</u>	23. <u>02</u>	24.02	25./2_
26. <u>0</u> <u>3</u>	27.02	28. <u>O Z</u>	29. <u>B</u>	30. <u>60</u>	31.00	32
33. <u>0 4</u>	34. 🕖 📗	35. <u>O</u>	36. <u>B</u>	37. <u>60</u>	38. <u>D</u> <u>O</u>	39.
40. <u>0</u> <u>5</u>	41	42	43	44	45	46

IF GREATER THAN FIVE EVENTS, CONTINUE CODING ON THE ACCIDENT EVENT SUPPLEMENT

CODES FOR CLASS OF VEHICLE

- (00) Not a motor vehicle
- (01) Subcompact/mini (wheelbase < 254 cm)
- (02) Compact (wheelbase ≥ 254 but < 265 cm)
- (03) Intermediate (wheelbase ≥ 265 but < 278 cm)
- (04) Full size (wheelbase ≥ 278 but < 291 cm)
- (05) Largest (wheelbase ≥ 291 cm)
- (09) Unknown passenger car size
- (11) Compact utility vehicle
- (12) Large utility vehicle (≤ 4,500 kgs GVWR)
- (13) Passenger van (≤ 4,500 kgs GVWR)
- (14) Other van (≤ 4,500 kgs GVWR)
- (15) Pickup truck (≤ 4,500 kgs GVWR)
- (18) Other truck (≤ 4,500 kgs GVWR)
- (19) Unknown light truck type
- (20) School bus
- (21) Other bus
- (22) Truck (> 4,500 kgs GVWR)
- (23) Tractor without trailer
- (24) Tractor-trailer(s)
- (25) Motored cycle
- (28) Other vehicle
- (99) Unknown

CODES FOR GENERAL AREA OF DAMAGE (GAD)

CDS APPLICABLE AND OTHER VEHICLES

TDC APPLICABLE ICLES VEHICLES

- (0) Not a motor vehicle
- (N) Noncollision
- (F) Front
- (R) Right side
- (L) Left side
- (B) Back
- (T) Top
- (U) Undercarriage
- (9) Unknown

- (O) Not a motor vehicle
- (N) Noncollision
- (F) Front
- (R) Right side
- (L) Left side
- (B) Back of unit with cargo area (rear of trailer or straight truck)
- (D) Back (rear of tractor)
- (C) Rear of cab
- (V) Front of cargo area
- (T) Top
- (U) Undercarriage
- (9) Unknown

CODES FOR VEHICLE NUMBER OR OBJECT CONTACTED

(01-30) — Vehicle Number

Noncollision

- (31) Overturn rollover
- (32) Fire or explosion
- (33) Jackknife
- (34) Other intraunit damage (specify):
- (35) Noncollision injury
- (38) Other noncollision (specify):
- (39) Noncollision details unknown

Collision With Fixed Object

- (41) Tree (≤ 10 cm in diameter)
- (42) Tree (> 10 cm in diameter)
- (43) Shrubbery or bush
- (44) Embankment
- (45) Breakaway pole or post (any diameter)

Nonbreakaway Pole or Post

- (50) Pole or post (\leq 10 cm in diameter)
- (51) Pole or post (> 10 cm but ≤ 30 cm in diameter)
- (52) Pole or post (> 30 cm in diameter)
- (53) Pole or post (diameter unknown)
- (54) Concrete traffic barrier
- (55) Impact attenuator
- (56) Other traffic barrier (includes guardrail) (specify):

- (57) Fence
- (58) Wall
- (59) Building
- (60) Ditch or culvert
- (61) Ground
- (62) Fire hydrant
- (63) Curb
- (64) Bridge
- (68) Other fixed object (specify):
- (69) Unknown fixed object

Collision with Nonfixed Object

- (71) Motor vehicle not in-transport
- (72) Pedestrian
- (73) Cyclist or cycle
- (74) Other nonmotorist or conveyance
- (75) Vehicle occupant
- (76) Animal
- (77) Train
- (78) Trailer, disconnected in transport
- (88) Other nonfixed object (specify):
- (89) Unknown nonfixed object
- (98) Other event (specify):
- (99) Unknown event or object

National Highway Traffic Safety Administration

GENERAL VEHICLE FORM

NATIONAL ACCIDENT SAMPLING SYSTEM CRASHWORTHINESS DATA SYSTEM

1. Primary Sampling Unit Number 2. Case Number - Stratum 3. Vehicle Number VEHICLE IDENTIFICATION 4. Vehicle Model Year Code the last two digits of the model year (99) Unknown 5. Vehicle Make (specify): Applicable codes are found in your	11. Police Reported Alcohol Presence (0) No alcohol present (1) Yes (alcohol present) (7) Not reported (8) No driver present (9) Unknown Note: See variables 37 through 55 (Page 4) for information on Other Drugs 12. Alcohol Test Result For Driver Code actual value (decimal implied before first digit—0.xx) (95) Test refused (96) None given (97) AC test performed, results unknown
NASS Data Collection, Coding and Editing Manual. (99) Unknown	(98) No driver present (99) Unknown Source:
6. Vehicle Model (specify): Applicable codes are found in your NASS Data Collection, Coding and Editing Manual. (999) Unknown	13. Speed Limit (000) No statutory limit Code posted or statutory speed limit in kph (999) Unknown
7. Body Type Note: Applicable codes may be found on the back of this page.	45 mph X 1.6093 = 724 kph 14. Attempted Avoidance Maneuver (00) No impact (01) No avoidance actions
8. Vehicle Identification Number	(02) Braking (no lockup) (03) Braking (lockup) (04) Braking (lockup unknown)
6MPCTO123M	(05) Releasing brakes (06) Steering left
Left justify; Slash zeros and letter Z (0 and 로) No VIN—Code all zeros Unknown—Code all nine's	(07) Steering right (08) Braking and steering left (09) Braking and steering right (10) Accelerating
OFFICIAL RECORDS	(11) Accelerating and steering left (12) Accelerating and steering right
9. Police Reported Vehicle Disposition (0) Not towed due to vehicle damage (1) Towed due to vehicle damage (9) Unknown	(97) No driver present (98) Other action (specify): (99) Unknown
10. Police Reported Travel Speed Code to the nearest kph (NOTE: 000 means less than 0.5 kph) (160) 159.5 kph and above (999) Unknown mph X 1.6093 = kph	15. Accident Type Applicable codes may be found on the back of page two of this field form (00) No impact Code the number of the diagram that best describes the accident circumstance (98) Other accident type (specify): (99) Unknown
	NOT DOES NOT FOUND OF 45 TTT
**** SKIP TO VARIABLE GV37 IF G	SV07 DOES NOT EQUAL 01-49 ****

CODES FOR BODY TYPE

CDS APPLICABLE VEHICLES

Automobiles

- (01) Convertible (excludes sun-roof, t-bar)
- (O2) 2-door sedan, hardtop, coupe
- (03) 3-door/2-door hatchback
- (04) 4-door sedan, hardtop
- (05) 5-door/4-door hatchback
- (06) Station wagon (excluding van and truck based)
- (07) Hatchback, number of doors unknown
- (08) Other automobile type (specify):
- (09) Unknown automobile type

Automobile Derivatives

- (10) Auto based pickup (includes El Camino, Caballero, Ranchero, Brat, and Rabbit pickup)
- (11) Auto based panel (cargo station wagon, auto based ambulance/hearse)
- (12) Large limousine more than four side doors or stretched chassis
- (13) Three-wheel automobile or automobile derivative

Utility Vehicles (≤ 4,500 kgs GVWR)

- (14) Compact utility (Jeep CJ-2 CJ-7, Scrambler, Golden Eagle, Renegade, Laredo, Wrangler, Cherokee [84 and after], Dispatcher, Raider, Bronco II, Bronco [76 and before], Explorer, S-10 Blazer, Geo Tracker, Bravada, S-15 Jimmy, Thing, Pathfinder, Trooper, Trooper II, Rodeo, Amigo, Navajo, 4-Runner, Montero, Samurai, Sidekick, Rocky)
- (15) Large utility (includes Jeep Cherokee [83 and before], Ramcharger, Trailduster, Bronco-fullsize [78 and after], fullsize Blazer, fullsize Jimmy, Landcruiser, Rover, Scout)
- (16) Utility station wagon (Chevy Suburban, GMC Suburban, Travelall, Grand Wagoneer, includes suburban limousine)
- (19) Utility, unknown body type

Van Based Light Trucks (≤ 4,500 kgs GVWR)

- (20) Minivan (Chrysler Town and Country, Caravan, Grand Caravan, Voyager, Grand Voyager, Mini-Ram, Dodge/Plymouth Vista, Aerostar, Villager, Lumina APV, Trans Sport, Silhouette, Astro, Safari, Toyota Van, Toyota Minivan, Previa, Nissan Minivan, Quest, Mitsubishi Minivan, Vanagon/Camper.)
- (21) Large van (B150-B350, Sportsman, Royal, Maxiwagon, Ram, Tradesman, Voyager [83 and before], E150-E350, Econoline, Clubwagon, Chateau, G10-G30, Chevy Van, Beauville, Sport Van, G15-G35, Rally Van, Vandura.)
- (22) Step van or walk-in van (≤ 4,500 kgs GVWR)
- (23) Van based motorhome (≤ 4,500 kgs GVWR)
- (24) Van based school bus (≤ 4,500 kgs GVWR)
- (25) Van based other bus (≤ 4,500 kgs GVWR)
- (28) Other van type (Hi-Cube Van, Kary) (specify):
- (29) Unknown van type

Light Conventional Trucks (Pickup style cab, ≤ 4,500 kgs GVWR)

- (30) Compact pickup (D50, Colt P/U, Ram 50, Dakota, Arrow Pickup [foreign], Ranger, Courier, S-10, T-10, LUV, S-15, T-15, Sonoma, Datsun/Nissan Pickup, P'up, Mazda Pickup, Toyota Pickup, Mitsubishi Pickup)
- (31) Large Pickup (Jeep Pickup, Comanche, Ram Pickup, D100-D350, W100-W350, F100-F350, C10-C35, K10-K35, R10-R35, V10-V35, Silverado, Sierra, R100-R500,)

- (32) Pickup with slide-in camper
- (33) Convertible pickup
- (39) Unknown pickup style light conventional truck type

Other Light Trucks (≤ 4,500 kgs GVWR)

- (40) Cab chassis based (includes rescue vehicles, light stake, dump, and tow truck)
- (41) Truck based panel
- (42) Light truck based motorhome (chassis mounted)
- (45) Other light conventional truck type
- (48) Unknown light truck type
- (49) Unknown light vehicle type (automobile, utility, van, or light truck)

OTHER VEHICLES

Buses (Excludes Van Based)

- (50) School bus (designed to carry students, not cross country or transit)
- (58) Other bus type (e.g., transit, intercity, bus based motorhome) (specify):
- (59) Unknown bus type

Medium/Heavy Trucks (> 4,500 kgs GVWR)

- (60) Step van (> 4,500 kgs GVWR)
- (61) Single unit straight truck (4,500 kgs < GVWR ≤ 8,850 kgs)
- (62) Single unit straight truck (8,850 kgs < GVWR ≤ 12,000 kgs)
- (63) Single unit straight truck (> 12,000 kgs GVWR)
- (64) Single unit straight truck, GVWR unknown
- (65) Medium/heavy truck based motorhome
- (67) Truck-tractor with no cargo trailer
- (68) Truck-tractor pulling one trailer
- (69) Truck-tractor pulling two or more trailers
- (70) Truck-tractor (unknown if pulling trailer)
- (78) Unknown medium/heavy truck type
- (79) Unknown truck type (light/medium/heavy)

Motored Cycles (Does Not Include All-Terrain Vehicles/Cycles)

- (80) Motorcycle
- (81) Moped (motorized bicycle)
- (82) Three-wheel motorcycle or moped
- (88) Other motored cycle (minibike, motorscooter) (specify):
- (89) Unknown motored cycle type

Other Vehicles

- (90) ATV (All-Terrain Vehicle) and ATC (All-Terrain Cycle)
- (91) Snowmobile
- (92) Farm equipment other than trucks
- (93) Construction equipment other than trucks
- (97) Other vehicle type
- (99) Unknown body type

	OCCUPANT RELATED	24. Rollover	
	Driver Presence in Vehicle (0) Driver not present (1) Driver present (9) Unknown Number of Occupants This Vehicle (00-96) Code actual number of occupants	(0) No rollover (no overturning) Rollover (primarily about the longitudinal as (1) Rollover, 1 quarter turn only (2) Rollover, 2 quarter turns (3) Rollover, 3 quarter turns (4) Rollover, 4 or more quarter turns (spec	
18	for this vehicle (97) 97 or more (99) Unknown Number of Occupant Forms Submitted	(5) Rolloverend-over-end (i.e., primarily about the lateral axis) (9) Rollover (overturn), details unknown	
10.	Number of Occupant Forms Submitted		
	VEHICLE WEIGHT ITEMS	OVERRIDE/UNDERRIDE (THIS VEHIC	CLE)
	Vehicle Curb Weight 0/82 Code weight to nearest	25. Front Override/Underride (this Vehicle)	_0
	10 kilograms. (045) Less than 450 kilograms (610) 6,100 kilograms or more	26. Rear Override/Underride (this Vehicle)	0
	(999) Unknown	(0) No override/underride, or not an end-to-end impact	
		Override (see specific CDC) (1) 1st CDC (2) 2nd CDC	
20.	Vehicle Cargo Weight Code weight to nearest 10 kilograms.	(3) Other not automated CDC (specify):	
	(000) Less than 5 kilograms (450) 4,500 kilograms or more (999) Unknown	Underride (see specific CDC) (4) 1st CDC (5) 2nd CDC	
	,lbs X .4536 =,kgs	(6) Other not automated CDC (specify):	
21.	RECONSTRUCTION DATA Towed Trailing Unit	(7) Medium/heavy truck or bus override (9) Unknown	
	(0) No towed unit		
	(1) Yes—towed trailing unit (9) Unknown	HEADING ANGLE AT IMPACT FO HIGHEST DELTA V	R
22.	Documentation of Trajectory Data for This Vehicle (0) No (1) Yes	Values: (000)-(359) Code actual value (997) Noncollision (998) Impact with object (999) Unknown	
23.	Post Collision Condition of Tree or Pole	27. Heading Angle For This Vehicle	79
	(For Highest Delta V) (0) Not collision (for highest delta V) with tree or pole (1) Not damaged (2) Cracked/sheared (3) Tilted <45 degrees (4) Tilted ≥45 degrees (5) Uprooted tree (6) Separated pole from base (7) Pole replaced (8) Other (specify):	28. Heading Angle For Other Vehicle 9	79
	(9) Unknown		

Cate- gory	Configur- ation	ACCIDENT TYPES (Includes Intent)		
	A. Right Roadside	DRIVE OFF CONTROL/ AYOID COLLISION	04 SPECIFICS	05 SPECIFICS
	Departure	DRIVE OFF CONTROL/ AVOID COLLISION ROAD TRACTION LOSS WITH VEH., PED., ANIM.	OTHER	UNKNOWN
Single Driver	B Left	06 07 08	09	10
Single	Roadside Departure	DRIVE OFF CONTROL/ AVOID COLLISION ROAD TRACTION LOSS WITH VEH., PED., ANIM.	SPECIFICS OTHER	SPECIFICS UNKNOWN
	C. Forward	11 12 13 14	15	16
	Impact	PARKED VEH. 8TA. OBJECT PEDESTRIAN/ END ANIMAL DEPARTURE	SPECIFICS OTHER	SPECIFICS UNKNOWN
	D Rear-End	20 21 24 26 28 30 21 27 27 29 27 27 29 29 27 29 29 29 27 29 29 29 29 29 29 29 29 29 29 29 29 29	(EACH • 32)	(EACH • 33)
Trafficway Direction		STOPPED SLOWER DECEL. 21, 22, 23 25, 27 29, 30, 31	SPECIFICS OTHER	SPECIFICS UNKNOWN
Same Trafficway Same Direction	E	34 36 36 37 38 40	122 (EACH • 41	42) (EACH • 43)
1 1	Forward Impact	CONTROL/ CONTROL/ AVOID COLLISION AVOID COLLISION TRACTION LOSS WITH VEH. WITH OBJECT		S SPECIFICS UNKNOWN
=	F. Sideswipe Angle	44 45 45 (EACH • 48) SPECIFICS OTHER		1 · 49) ICS UNKNOWN
, Y	G. Head-On	50 51 (EACH • 52) (EACH • 53) SPECIFICS SPECIFICS UNKNOWN	/N	
Same Trafficway Opposite Direction	H Forward Impact	54 55 56 57 58 59 60 CTJ 58 CTJ 59 AVOID COLLISION LOSS TRACTION LOSS WITH VEH. WITH OBJECT	- 61 SION SPECIFIC	62)(EACH • 63) S SPECIFICS UNKNOWN
III San	l. Sideswipe! Angle	TRACTION LOSS TRACTION LOSS WITH VEH. WITH OBJECT 65 (EACH • 66) (EACH • 67) SPECIFICS UNKNOW LATERAL MOVE OTHER	YN	
way.	J. Turn	50 70 73 72 70 73 72 72 72 72 72 72 72 72 72 72 72 72 72		74) (EACH • 75)
fraffic	Across Path	INITIAL OPPOSITE INITIAL SAME DIRECTIONS DIRECTIONS	SPECIFICS OTHER	SPECIFICS UNKNOWN
IV. Change Trafficway Vehicle Turning	K. Turn Into Path	77 79 81 83 8 TURN INTO SAME DIRECTION TURN INTO OPPOSITE DIRECTIONS	2 (EACH • SPECIFICS OTHER	SPECIFICS UNKNOWN
V Intersecting Paths IV (Vehicle Damage)	L. Straight Paths	87 (EACH • 90) 88 89 SPECIFICS OTHER	(EACH • SPECIFICS	91) UNKNOWN
VI. Miscel- laneous	M. Backing Etc.	92 93 OTHER VEH. OR OBJECT 99 Unknown A BACKING VEH. 98 Other Accid 99 Unknown A 00 No Impact	ent Type ccident Type	·

	Secondary Highest
29. Basis for Total Delta V (highest)	32. Lateral Component of Delta V 📛 🖒 🚶 Z
 Delta V Calculated (1) CRASH program—damage only routine (2) CRASH program—damage and trajectory routine (3) Missing vehicle algorithm Delta V Not Calculated (4) At least one vehicle (which may be this vehicle) is beyond the scope of an acceptable reconstruction program, regardless of collision conditions. (5) All vehicles within scope (CDC applicable) of CRASH program but one of the collision conditions is beyond the scope of the CRASH program or other acceptable reconstruction technique, regardless of adequacy of damage data. (6) All vehicle and collision conditions are within scope of one of the acceptable reconstruction programs, but there is insufficient data 	Note: _000 means greater than _0.5 kph and less than +0.5 kph) (±160) ±159.5 kph and above (_999) Unknown 33. Energy Absorption
COMPUTER GENERATED DELTA V Secondary Highest 30. Total Delta V 24 Nearest kph	 (0) No reconstruction (1) Collision fits model — results appear reasonable (2) Collision fits model — results appear high (3) Collision fits model — results appear low (4) Borderline reconstruction — results appear reasonable 35. Type of Vehicle Inspection
(NOTE: 000 means less than 0.5 kph) (160) 159.5 kph and above (999) Unknown	(0) No inspection (1) Complete inspection (2) Partial inspection (specify):
31. Longitudinal Component of Delta V - 21 Nearest kph (NOTE: _000 means greater than -0.5 kph and less than +0.5 kph) (±160) ±159.5 kph and above (_999) Unknown	36. Is this an AOPS Vehicle? (0) No (1) Yes - researcher determined (2) VIN determined air bag system (3) VIN determined automatic (passive) belts (4) VIN determined air bag and automatic (passive) belts
IS OLDMISS APPLICABLE FOR 1	THIS VEHICLE? [] YES [] NO
IF YES: IS A COMPLETED OLDMISS PROGRA	AM SUMMARY INCLUDED? [] YES [] NO

37. Police Reported Other Drug Presence (0) No other drugs present (1) Yes (other drug present)	DRUG EVALUATION CLASSIFICATION OTHER DRUGS TEST RESULTS FOR DRIVER
(1) Yes (other drug present) (7) Not reported (8) No driver present (9) Unknown	DEC Specimen Test Test Results Results Narcotic Drug 40. 41. 1
38. Police Reported Drug Evaluation Classification (DEC) Test For Driver (0) No DEC process available or given (1) DEC process given, results known (2) DEC process given, results unknown (3) DEC process available, unknown if given (8) No driver present	Depressant Drug 42. 43. 1 Stimulant Drug 44. 45. 1 Hallucinogen Drug 46. 47. 1 Cannabinoid Drug 48. 49. 1 Phencyclidine (PCP) 50. 51. 1 Inhalant Drug 52. 53. 1 Other Drug (Excluding 54. 55. 1 Nicotine, Aspirin, Alcohol, Drugs Administered Post-Crash)
39. Other Drug Specimen Test Type For Driver (0) No specimen test given (1) Blood test (2) Urine test (3) Other specimen tests (specify): (7) Unspecified specimen test (8) No driver present (9) Unknown if specimen test given	Codes For DEC Test Results (0) No DEC test given (1) Passed DEC test (2) Failed DEC test (3) DEC test given—results unknown (8) No driver present (9) Unknown if DEC test given Codes for Specimen Test Results (0) No specimen test given (1) Drug not found in specimen (2) Drug found in specimen (7) Specimen test given, results unknown or not obtained (8) No driver present (9) Unknown if specimen test given

OTHER DATA	
	61. Rollover Initiation Object Contacted
(0000) Driver not present (00001) Driver not a resident of U.S. or territories Code actual 5-digit zip code (99999) Unknown	62. Location on Vehicle Where Initial Principal Tripping Force Is Applied (0) No rollover (1) Wheels/tires (2) Side plane
57. Driver's Race/Ethnic Origin (0) Driver not present (1) White (non-Hispanic) (2) Black (non-Hispanic) (3) White (Hispanic) (4) Black (Hispanic) (5) American Indian, Eskimo or Aleut (6) Asian or Pacific Islander (8) Other (specify):	(3) End plane (4) Undercarriage (5) Other location on vehicle (specify): (8) Non-contact rollover forces (specify): (9) Unknown
(9) Unknown 58. Vehicle Special Use (This Trip) (0) No special use (1) Taxi (2) Vehicle used as school bus (3) Vehicle used as other bus (4) Military (5) Police (6) Ambulance	(0) No rollover (1) Roll right - primarily about the longitudinal axis (2) Roll left - primarily about the longitudinal axis (5) End-over-end (i.e., primarily about the lateral axis) (9) Unknown roll direction
(7) Fire truck or car	PRECRASH DATA
(8) Other (specify): (9) Unknown ROLLOVER DATA If GV07 (Body Type) ≠ 1-49, leave GV59-GV63 blank. If GV24 (Rollover) = 0, then GV59-GV63 must equal 0. If GV24 = 9, then GV59-GV63 must equal 9.	64. Pre-Event Movement (Prior to Recognition of Critical Event) (01) Going straight (02) Slowing or stopping in traffic lane (03) Starting in traffic lane (04) Stopped in traffic lane
59. Rollover Initiation Type (0) No rollover (1) Trip-over (2) Flip-over (3) Turn-over (4) Climb-over (5) Fall-over (6) Bounce-over (7) Collision with another vehicle (8) Other rollover initiation type specify):	 (05) Passing or overtaking another vehicle (06) Disabled or parked in travel lane (07) Leaving a parking position (08) Entering a parking position (09) Turning right (10) Turning left (11) Making a U-turn (12) Backing up (other than for parking position) (13) Negotiating a curve (14) Changing lanes (15) Merging (16) Successful avoidance maneuver to a previous critical event (97) Other (specify):
60. Location of Rollover Initiation (0) No rollover (1) On roadway (2) On shoulder—paved (3) On shoulder—unpaved (4) On roadside or divided trafficway median	(98) No driver present (99) Unknown

CODES FOR ROLLOVER INITIATION OBJECT CONTACTED

(00) No rollover	(57) Fence
(01-30) — Vehicle Number	(58) Wall
	(59) Building
Noncollision	(60) Ditch or culvert
(31) Turn-over — fall-over	(61) Ground
(33) Jackknife	(62) Fire hydrant
,,	(63) Curb
Collision With Fixed Object	(64) Bridge
(41) Tree (≤ 10 cm in diameter)	(68) Other fixed object (specify):
(42) Tree (> 10 cm in diameter)	too, other had object topoony,
(43) Shrubbery or bush	(69) Unknown fixed object
(44) Embankment	(00) Chkhown hada object
(TT) Embandment	Collision with Nonfixed Object
(AE) Breekeysey note or neet (only diameter)	
(45) Breakaway pole or post (any diameter)	(71) Motor vehicle not in-transport
	(76) Animal
Nonbreakaway Pole or Post	(77) Train
(50) Pole or post (≤ 10 cm in diameter)	(78) Trailer, disconnected in transport
(51) Pole or post (> 10 cm but \leq 30 cm in	(88) Other nonfixed object (specify):
diameter)	
(52) Pole or post (> 30 cm in diameter)	(89) Unknown nonfixed object
(53) Pole or post (diameter unknown)	(oo, omalow nominad object
(00) I did di pode (didinata) dimanavini,	(98) Other event (specify):
(54) Concrete traffic barrier	(50) Other event (specify).
• • • • • • • • • • • • • • • • • • • •	(00) 11-1
(55) Impact attenuator	(99) Unknown event or object
(56) Other traffic barrier (includes guardrail)	
(specify):	

PRECRASH DATA (Continued) Pedestrian or Pedalcyclist, or Other Nonmotorist 65. Critical Precrash Event (80) Pedestrian in roadway (81) Pedestrian approaching roadway This Vehicle Loss of Control Due To: (82) Pedestrian - unknown location (01) Blow out or flat tire (02) Stalled engine (83) Pedalcyclist or other nonmotorist in roadway (03) Disabling vehicle failure (e.g., wheel fell off) (specify): (84) Pedalcyclist or other nonmotorist approaching (specify): (04) Non-disabling vehicle problem (e.g., hood flew roadway (specify): (85) Pedalcyclist or other nonmotorist—unknown up) (specify): (05) Poor road conditions (puddle, pot hole, ice, etc.) location (specify): (specify): Object or Animal (06) Traveling too fast for conditions (87) Animal in roadway (08) Other cause of control loss (specify): (88) Animal approaching roadway (89) Animal—unknown location (09) Unknown cause of control loss (90) Object in roadway This Vehicle Traveling (91) Object approaching roadway (92) Object—unknown location (10) Over the lane line on left side of travel lane (11) Over the lane line on right side of travel lane (98) Other critical precrash event (specify): (12) Off the edge of the road on the left side (13) Off the edge of the road on the right side (99) Unknown (14) End departure (15) Turning left at intersection (16) Turning right at intersection For Corrective Actions Attempted see variable GV14 (17) Crossing over (passing through) intersection (19) Unknown travel direction (Attemped Avoidance Manuever) Other Motor Vehicle In Lane (50) Stopped 66. Precrash Stability After Avoidance Maneuver (51) Traveling in same direction with lower speed (0) No avoidance maneuver (i.e., lower steady speed or decelerating) (1) Tracking (52) Traveling in same direction with higher speed (2) Skidding longitudinally—rotation less than 30 (53) Traveling in opposite direction degrees (54) in crossover (3) Skidding laterally—clockwise rotation (55) Backing (4) Skidding laterally—counterclockwise rotation (59) Unknown travel direction of other motor vehicle (7) Other vehicle loss-of-control (specify): in lane (8) No driver present Other Motor Vehicle Encroaching Into Lane (60) From adjacent lane (same direction) - over left (9) Precrash stability unknown lane line (61) From adjacent lane (same direction)—over right 9 lane line 67. Precrash Directional Consequences of (62) From opposite direction—over left lane line Avoidance Maneuver (Corrective Action) (63) From opposite direction—over right lane line (0) No avoidance maneuver (64) From parking lane (1) Vehicle stayed in travel lane where avoidance (65) From crossing street, turning into same maneuver was initiated direction (2) Vehicle stayed on roadway but left travel lane (66) From crossing street, across path where avoidance maneuver was initiated (67) From crossing street, turning into opposite (3) Vehicle stayed on roadway, not known if left direction travel lane where avoidance maneuver was (68) From crossing street, intended path not known initiated (70) From driveway, turning into same direction (4) Vehicle departed roadway (71) From driveway, across path (72) From driveway, turning into opposite direction (5) Avoidance maneuver initiated off roadway (73) From driveway, intended path not known (8) No driver present (74) From entrance to limited access highway (9) Directional consequences unknown (78) Encroachment by other vehicle—details unknown

*** IF THE CDS APPLICABLE VEHICLE WAS NOT INSPECTED (I.E., GV35=0), ***
DO NOT COMPLETE THE EXTERIOR AND INTERIOR VEHICLE FORMS.

*** IF GV07 DOES NOT EQUAL 01-49, DO NOT COMPLETE ***
THE EXTERIOR VEHICLE, INTERIOR VEHICLE,
OCCUPANT ASSESSMENT, AND OCCUPANT INJURY FORMS.



U.S. Department of Transportation

National Highway Traffic Safety Administration

EXTERIOR VEHICLE FORM

NATIONAL ACCIDENT SAMPLING SYSTEM **CRASHWORTHINESS DATA SYSTEM**

1	Primary	Sam	nlina	Unit	Number
٠.	FILLIALY	Jaili	piiiiy	Oille	MAILINE

3. Vehicle Number

2. Case Number - Stratum

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٠.		_		_	ч н				₩.	4 B.

VIN 6 MPCT & 123M

Model Year 9 (

Vehicle Make (specify): MERCLIRY

Vehicle Model (specify):

LOCATOR

Locate the end of the damage with respect to the vehicle longitudinal center line or bumper corner for end impacts or an undamaged axle for side impacts.

Specific Impact No.	Location of Direct Damage	Location of Field L
	STORES SS CM BEHIND FET DILE	STARTS 45 CM BACK OF FRET AX
		STATER 34 CM FRET DEPET ARKE
3	STARTS @ LRCNR	ENTIRE REAR PLANE

CRUSH PROFILE IN CENTIMETERS

NOTES: Identify the plane at which the C-measurements are taken (e.g., at bumper, above bumper, at sill, above sill, etc.) and label adjustments (e.g., free space).

Measure and document on the vehicle diagram the location of maximum crush.

Measure C1 to C6 from driver to passenger side in front or rear impacts and rear to front in side impacts.

Free space value is defined as the distance between the baseline and the original body contour taken at the individual C locations. This may include the following: bumper lead, bumper taper, side protrusion, side taper, etc. Record the value for each C-measurement and maximum crush.

Use as many lines/columns as necessary to describe each damage profile.

Specific	Diana of Impact	Direct D	amage	Tiold.							
Impact Number	Plane of Impact C-Measurements	Width (CDC)	Max Crush	Field L	C ₁	C ₂	C ₃	C₄	C ₅	C _e	±D
	SIDE SURFOCE	201	R	220	0	11	13	18EST	651	0	765
	, , ,									-451	
<u></u>	SIDE SURPLICE	95		95	LE	<u> </u>	7+17m	30	MC	KC#2H	
7	V	70	(1)	1111	10	19	00	17	/ tu	7	20
7	BUMPER SUPPORT	70		144	43	32	22	0	2	5	-31
					36	30	22	9	9	0	

ORIGINAL SPECIFICATIONS WORK SHEET

Wheelbase	_ 94.7 ii	nches x 2.54	= <u>24</u> <u></u> cm
Overall Length	166.L i	nches x 2.54	$= \frac{422}{\text{cm}}$
Maximum Width	_ <u>64.6</u> ii		
Curb Weight	2,3 85 44	Bunds x .4536	= $1,08$ kg
Average Track	54.9 56.0 i	nches x 2.54	$= \frac{135}{142} \text{cm}$
Front Overhang	i	nches x 2.54	= cm
Rear Overhang	i	nches x 2.54	cm
Undeformed End Width		nches x 2.54	= cm
Engine Size: cyl./displ.	c	c x .001	= L
	С	ID x .0164	= L

VEHICLE DAMAGE SKETCH TIRE-WHEEL DAMAGE WHEEL STEER ANGLES **ORIGINAL SPECIFICATIONS** a. Rotation physically b. Tire (For locked front wheels or restricted deflated Wheelbase cm displaced rear axles only) RF ± **Overall Length** cm LF ± Maximum Width RR 4 cm LR.± **Curb Weight** ka Within ± 5 degrees Average Track cm (1) Yes (2) No (8) NA (9) Unk. DRIVE WHEELS Front Overhang cm ☐ FWD ☐ RWD ☐ 4WD Rear Overhang cm TYPE OF TRANSMISSION **Undeformed End Width** cm **Approximate** ☑ Manual ☐ Automatic Engine Size: cyl./displ. Cargo Weight kg **MEASUREMENTS IN CENTIMETERS** Original **Bumper height** IMPACTWI EMBANKMENT POST-CRASH Bumper corner <u>\$4</u> 228 **Bumper corner** Stringline 90 104 Stringline DEPLOYMENT IMPACT FIRST IMPACT SIDE SLAP IMPACT W/VZ WIVZ. POST-CRASH **Bumper corner** Bumper corner 90 Stringline Sketch new perimeter and cross hatch direct damage and single hatch induced da mage on all views. Annotate observations which might be useful in reconstructing the accident (e.g., grass in tire bead, direction of striations, scuff on sidewalls, etc.). If pulling trailer, sketch type of trailer and damage received on the back of this page.

Annotate any damage caused by extrication such as component removal by torching, prying, or hydraulic shears.

CDC WORKSHEET												
CODES FOR OBJECT CONTACTED												
(01-30) — Vehicle Number			Fence									
			Wall									
Noncollision		(59)	Building Ditch or o	oulvort								
(31) Overturn — rollover (32) Fire or explosion			Ground	Juivert								
(33) Jackknife			Fire hydra	ant								
(34) Other intraunit damage (specify):			Curb			•						
			Bridge									
(35) Noncollision injury		(68)	Other fixe	ed object (s	pecity):							
(38) Other noncollision (specify):		(69)	Unknown	fixed object	nt							
(39) Noncollision — details unknown		(00)	Onknown	i iixoa obje								
,,				nfixed Obje								
Collision With Fixed Object				hicle not in	-transport							
(41) Tree (≤ 10 cm in diameter)			Pedestria									
(42) Tree (> 10 cm in diameter)(43) Shrubbery or bush			Cyclist or		r conveyanc	e.						
(44) Embankment												
(AE) Breekennen vole er veet fann diene	-41		Vehicle of Animal	ccupant								
(45) Breakaway pole or post (any diame	eter)		Train									
Nonbreakaway Pole or Post				isconnected	d in transpor	t						
(50) Pole or post (≤ 10 cm in diameter		(88)	Other no	nfixed obje	ct (specify):							
(51) Pole or post (> 10 cm but \leq 30 cm	cm in	400										
diameter) (52) Pole or post (> 30 cm in diameter	-1	(89)	Unknowr	n nonfixed o	object							
(53) Pole or post (diameter unknown)	,	(98)	Other ev	ent (specify	·):							
(54) Concrete traffic barrier		(99)	Unknowr	n event or c	bject							
(55) Impact attenuator	.d:11\	,										
(56) Other traffic barrier (includes guard (specify):												
DEFORMATION	I CI ASSI	EICATION DV	/ EVENT NI	IMPED								
DEFORMATION	CLASSII	FICATION BI										
Accident (1) (2)			(4) Specific	(5) Specific	(6)							
	remental	(3) L	ongitudinal.	Vertical or	Type of	(7)						
· · · · · · · · · · · · · · · · · · ·		Deformation	or Lateral Location	Lateral Location	Damage Distribution	Deformation Extent						
	Shift -	Location -			- I							
01 02 030	00	R	<u>Z</u>	<u>E</u>	<u>u</u>	07						
02 02 010 8	20	R	F	E	5	01						
		17	V	E	1. 1	03						
04 60 210 2	2	B	<u> </u>		$\underline{\omega}$	<u> </u>						
												
												

COLLISION DEFORMATION CLASSIFICATION HIGHEST DELTA "V" Accident (4) (5) (6) Event (1)(2)Longitudinal **(7)** (3) Vertical or Type of Sequence Object Direction Deformation or Lateral Lateral Damage Deformation Number Contacted of Force Location Location Location Distribution Extent 5.<u>0</u>2 6.<u>0</u>1 7.<u>R</u> 8.<u>Z</u> 9.<u>E</u> 10.6 11.62 Second Highest Delta "V" 12.03 13.60 14.07 15.B 16.Y 17.E 18.W 19.03 **CRUSH PROFILE IN CENTIMETERS** The crush profile for the damage described in the CDC(s) above should be documented in the appropriate space below. (ALL MEASUREMENTS ARE IN CENTIMETERS.) HIGHEST DELTA "V" 20. 21. 22. C₂_ C_3 C₄ ±D C_e 000 011 013 018 006 000 Second Highest Delta "V" 23. 24. 25. ±D C₂ C₃ C₄ 036 030 022 016 009 000 26. Are CDCs Documented 28. Original Wheelbase 27. Researcher's Assessment but Not Coded on The of Vehicle Disposition Code to the Automated File? (O) Not towed due to nearest centimeter (O) No vehicle damage (999) Unknown (1) Yes (1) Towed due to vehicle damage (9) Unknown _ . ___ inches X 2.54 = ___ __ centimeters

-			
- 63	90	•	
	au	•	

	ilai Accident Samping System-Crashwordinit		•	
	Is This A Multi-Stage Manufactured Vehicle And/Or A Certified Altered Vehicle? (0) No post manufacturer modifications (1) Yes - post manufacturer modifications (specify): (Include photograph of CERTIFICATION PLACARD in case report) (9) Unknown if vehicle is modified Fire Occurrence (0) No fire Yes, fire occurred (1) Minor (2) Major (9) Unknown	0	31. Origin of Fire (0) No fire (1) Vehicle exterior (front, side, back, top) (2) Exhaust system (3) Fuel tank (and other fuel retention system parts) (4) Engine compartment (5) Cargo/trunk compartment (6) Instrument panel (7) Passenger compartment area (8) Other location (specify): (9) Unknown 32. Type of Fuel Tank (0) No fuel tank (electrical vehicle) (1) Metallic (2) Non-metallic (9) Unknown	2
**			WAS NOT TOWED AND WAS NOT AN AOPS OT COMPLETE THE INTERIOR VEHICLE FORM	

INTERIOR VEHICLE FORM

NATIONAL ACCIDENT SAMPLING SYSTEM
CRASHWORTHINESS DATA SYSTEM

dministration	CRASHWORTHINESS DATA SYSTE
1 Drimony Compline Unit Number NO.	GLAZING
1. Primary Sampling Unit Number	Glazing Damage from Impact Forces
2. Case Number - Stratum 9305	15. WS <u>O</u> 16. LF <u>O</u> 17. RF <u>6</u> 18. LR <u>O</u> 19. RR <u>O</u>
3. Vehicle Number	20. BL $\underline{\mathscr{C}}$ 21. Roof $\underline{\mathscr{C}}$ 22. Other $\underline{\mathscr{C}}$
INTEGRITY	(O) No glazing damage from impact forces
4. Passenger Compartment Integrity (00) No integrity loss Yes, Integrity Was Lost Through (01) Windshield (02) Door (side) (03) Door/hatch (back door)	 (0) No glazing damage from impact forces (2) Glazing in place and cracked from impact forces (3) Glazing in place and holed from impact forces (4) Glazing out-of-place (cracked or not) and not holed from impact forces (5) Glazing out-of-place and holed from impact forces (6) Glazing disintegrated from impact forces (7) Glazing removed prior to accident (8) No glazing
(04) Roof (05) Roof glass	(9) Unknown if damaged
 (06) Side window (07) Rear window (backlight) (08) Roof and roof glass (09) Windshield and door (side) (10) Windshield and roof 	Glazing Damage from Occupant Contact 23. WS 22. LF 22. RF 22. LR 22. RR 23. RP 24. LR 24. LR 25. RF 26. LR 27. RR 27. RR 27. RR 27. RR 28. RP 27. RR 28. RP
(11) Side and rear window (side window and backlight) (12) Windshield and side window (13) Door and side window (98) Other combination of above (specify): (99) Unknown	28. BL 29. Roof 30. Other (1) (0) No occupant contact to glazing or no glazing (1) Glazing contacted by occupant but no glazing damage (2) Glazing in place and cracked by occupant contact (3) Glazing in place and holed by occupant contact (4) Glazing out-of-place (cracked or not) by occupant contact contact and not holed by occupant contact
Door, Tailgate or Hatch Opening 5. LF / 6. RF 3 7. LR 0 8. RR 0 9. TG/H 0	(5) Glazing out-of-place by occupant contact and holed by occupant contact (6) Glazing disintegrated by occupant contact (9) Unknown if contacted by occupant
 (0) No door/gate/hatch (1) Door/gate/hatch remained closed and operational (2) Door/gate/hatch came open during collision 	If No Glazing Damage <i>And</i> No Occupant Contact or No Glazing, Then Code IV31 Through IV46 As Ø
(3) Door/gate/hatch jammed shut (8) Other (specify):	Type of Window/Windshield Glazing
(9) Unknown	31. WS / 32. LF / 33. RF / 34. LR / 35. RR
	36. BL 37. Roof <u>O</u> 38. Other <u>-</u>
Damage/Failure Associated with Door, Tailgate or Hatch Opening in Collision. If IV05-IV09 ≠ 2, Then code Ø 10. LF 11. RF 12. LR 13. RR 14. TG/H (0) No door/gate/hatch or door not opened	 (0) No glazing contact and no damage, or no glazing (1) AS-1 — Laminated (2) AS-2 — Tempered (3) AS-3 — Tempered-tinted (4) AS-14 — Glass/Plastic (8) Other (specify):
	(9) Unknown
Door, Tailgate or Hatch Came Open During Collision (1) Door operational (no damage) (2) Latch/striker failure due to damage (3) Hinge failure due to damage (4) Door structure failure due to damage (5) Door support (i.e., pillar, sill, roof side rail, etc.) failure due to damage (6) Latch/striker and hinge failure due to damage (8) Other failure (specify):	Window Precrash Glazing Status 39. WS 40. LF 41. RF 42. LR 43. RR 44. BL 45. Roof 46. Other 6 (0) No glazing contact and no damage, or no glazing (1) Fixed
(9) Unknown	(2) Closed (3) Partially opened (4) Fully opened (9) Unknown

National Accident Sampling System-Crashworthiness Data System: Interior Vehicle Form OCCUPANT AREA INTRUSION Note: If no intrusions, leave variables IV47-IV86 blank. INTRUDING COMPONENT Dominant Interior Components Intruding Location of Magnitude Crush (01) Steering assembly intrusion Component of intrusion Direction (02) Instrument panel left (03) Instrument panel center (04) Instrument panel right 1st 47.___ 48.___ 49. 50. (05) Toe pan (06) A (A1/A2)-pillar (07) B-pillar (08) C-pillar 2nd 51.____ 52.___ 53. (09) D-pillar (10) Door panel (side) (12) Roof (or convertible top) (13) Roof side rail 3rd 55.___ 56.___ **57.** (14) Windshield (15) Windshield header (16) Window frame (17) Floor pan (includes sill) **/**61. 4th 59. 60. (18) Backlight header (19) Front seat back (20) Second seat back (21) Third seat back 65. 5th 63. 64. 66. (22) Fourth seat back (23) Fifth seat back (24) Seat cushion (25) Back door/panel (e.g., tailgate) 67.____ 68/ 69. 70._ (26) Other interior component (specify): (27) Side panel - forward of the A (A2)-pillar (28) Side panel - rear of the A (A2)-pillar 72. 73. __ 74. **Exterior Components** (30) Hood 8th 75. 76.___ 77.___ 78.___ (31) Outside surface of this vehicle (specify): (32) Other exterior object in the environment (specify): 9th 79. 80.____ 81.___ 82.___ (33) Unknown exterior object (97) Catastrophic (98) Intrusion of unlisted component(s) (specify): 84.___ 85.___ 86.___ 10th 83. (99) Unknown LOCATION OF INTRUSION **MAGNITUDE OF INTRUSION** (1) \geq 3 centimeters but < 8 centimeters Front Seat Fourth Seat (2) ≥ 8 centimeters but < 15 centimeters (11) Left (41) Left (3) ≥ 15 centimeters but < 30 centimeters (12) Middle (42) Middle (4) ≥ 30 centimeters but < 46 centimeters (13) Right (43) Right (5) \geq 46 centimeters but < 61 centimeters (6) ≥ 61 centimeters Second Seat (97) Catastrophic (7) Catastrophic (21) Left (98) Other enclosed (9) Unknown (22) Middle area (specify) (23) Right (99) Unknown **DOMINANT CRUSH DIRECTION** Third Seat (1) Vertical (31) Left (2) Longitudinal (32) Middle

(33) Right

(3) Lateral

(7) Catastrophic (9) Unknown

STEERING COLUMN	93. Location of Steering Rim/Spoke
87. Steering Column Type	Deformation
(1) Fixed column (2) Tilt column	(00) No steering rim deformation
(3) Telescoping column	Quarter Sections (01) Section A
(4) Tilt and telescoping column(8) Other column type (specify):	(02) Section B (03) Section C
	(03) Section C (04) Section D
(9) Unknown	Half Sections
	(05) Upper half of rim/spoke
	(06) Lower half of rim/spoke (Upper) (i g f h)
88. Blank <u>X X</u>	(08) Right half of rim/spoke
(This variable is left blank so that numbering consistency	(09) Complete steering wheel collapse (10) Undetermined location
can be maintained with the	(10) Undetermined location (99) Unknown
1988-93 CDS.	
	INSTRUMENT PANEL
89. Blank (This veriable is left black	94. Odometer Reading
(This variable is left blank so that numbering consistency	30,968 kilometers—Code to the
can be maintained with the 1988-93 CDS.	nearest 1,000 kilometers
1300-33 CD3.	(000) No odometer (001) Less than 1,500 kilometers
and the second s	(500) 499,500 kilometers or more (999) Unknown
90. Blank (This variable is left blank	(OUD) Children
so that numbering consistency	_19,243 miles x 1.6093 = 39968 kilometers
can be maintained with the 1988-93 CDS.	Source:
1000 00 000.	
	95. Instrument Panel Damage from
91. Blank (This variable is left blank	Occupant Contact?
so that numbering consistency	(1) Yes (9) Unknown
can be maintained with the 1988-93 CDS.	(o) onchown
	96. Knee Bolsters Deformed from
	Occupant Contact? (0) No
92. Steering Rim/Spoke Deformation Code actual measured	(1) Yes (8) Not present
deformation to the nearest centimeter (00) No steering rim deformation	(9) Unknown
(01-14) Actual measured value in centimeters (15) 15 centimeters or more	
(98) Observed deformation cannot be measured	97. Did Glove Compartment Door Open During Collision(s)?
(99) Unknown	(0) No
	(1) Yes (8) Not present
	(9) Unknown
·	

VEHICLE INTERIOR SKETCHES Note area of ejection/entrapment Sketch windshield contact(s) and the damaged area(s) on the instrument panel outline (e.g., radio, glove compartment, damage to instrument panel structure.

Annotate the contacted area with a letter (begin with A) and list on the Points of Occupant Contact page.

Cross hatch contact points, draw spider webs or use other annotation as may be appropriate.

POINTS OF OCCUPANT CONTACT						
Contact	Interior Component Contacted	Occupant No. If Known	Body Region If Known	Supporting Physical Evidence	Confidence Level of Contact Point	
Α	45	1	-	POSSIBLE MAKEUP SMUDGES	2	
В	01		H	SPIDERWEB CRACKS	1	
С	1 (-	()	DEFORMATION & TRANSFERS	1	
D	12	ļ)	ITRANSFIR	Ì	
E	40		C	LEANED FACIC	2	
F	40	UNIC	U	LEANED BACK	2	
G	57	UNK	2	CONSOLE PLANTIC CRACK	2	
Н						
1						
J						
К						
L				·		
М						
N						

CODES FOR INTERIOR COMPONENTS

FRONT	
-------	--

- (01) Windshield
- (02) Mirror
- (03) Sunvisor
- (04) Steering wheel rim
- (05) Steering wheel hub/spoke
- (06) Steering wheel (combination of codes 04 and 05)
- (07) Steering column, transmission selector lever, other attachment
- (08) Add on equipment (e.g., CB, tape deck, air conditioner)
- (09) Left instrument panel and below
- (10) Center instrument panel and below
- (11) Right instrument panel and below
- (12) Glove compartment door
- (13) Knee bolster
- (14) Windshield including one or more of the following: front header, A (A1/A2)-pillar, instrument panel, mirror, or steering assembly (driver side only)
- (15) Windshield including one or more of the following: front header, A (A1/A2)-pillar, instrument panel, or mirror (passenger side only)
- (16) Driver side air bag compartment cover
- (17) Passenger side air bag compartment cover
- (18) Windshield reinforced by exterior object (specify):
- (19) Other front object (specify):

LEFT SIDE

- (20) Left side interior surface, excluding hardware or armrests
- (21) Left side hardware or armrest
- (22) Left A (A1/A2)-pillar

- (23) Left B-pillar
- (24) Other left pillar (specify):
- (25) Left side window glass or frame
- (26) Left side window glass including one or more of the following: frame, window sill, A (A1/A2)-pillar, B-pillar, or roof side rail.
- (27) Other left side object (specify):
- (28) Left side window sill

RIGHT SIDE

- (30) Right side interior surface, excluding hardware or armrests
- (31) Right side hardware or armrest
- (32) Right A (A1/A2)-pillar
- (33) Right B-pillar
- (34) Other right pillar (specify):
- (35) Right side window glass or frame
- (36) Right side window glass including one or more of the following: frame, window sill, A (A1/A2)-pillar, B pillar, or roof side rail.
- (37) Other right side object (specify):
- (38) Right side window sill

INTERIOR

- (40) Seat, back support
- (41) Belt restraint webbing/buckle
- (42) Belt restraint B-pillar attachment point
- (43) Other restraint system component (specify):
- (44) Head restraint system
- (45) Air bag (use codes "16" and "17" for injuries sustained from air bag compartment covers)

- (46) Other occupants (specify):
- (47) Interior loose objects
- (48) Child safety seat (specify):
- (49) Other interior object (specify):

ROOF

- (50) Front header
- (51) Rear header
- (52) Roof left side rail
- (53) Roof right side rail
- (54) Roof or convertible top

FLOOR

- (56) Floor (including toe pan)
- (57) Floor or console mounted transmission lever, including console
- (58) Parking brake handle
- (59) Foot controls including parking brake

REAR

- (60) Backlight (rear window)
- (61) Backlight storage rack, door, etc.
- (62) Other rear object (specify):

CONFIDENCE LEVEL OF CONTACT POINT

- (1) Certain
- (2) Probable
- (3) Possible
- (9) Unknown

AUTOMATIC RESTRAINTS

NOTES: Encode the data for each applicable front seat position. The attribute for the variables may be found below. Restraint systems should be assessed during the vehicle inspection then coded on the Occupant Assessment Form.

AIR BAGS

		Left	Right
F	Availability/Function	L	0
R	Deployment	L .	0
S	Failure		<u> </u>

Air Bag System Availability/Function

- (0) Not equipped/not available
- (1) Air bag

Non-functional

- (2) Air bag disconnected (specify):
- (3) Air bag not reinstalled
- (9) Unknown

Air Bag System Deployment

- (0) Not equipped/not available
- (1) Air bag deployed during accident (as a result of impact)
- (2) Air bag deployed inadvertently just prior to accident
- (3) Air bag deployed, accident sequence undetermined
- (4) Nondeployed
- (5) Unknown if deployed
- (6) Air bag deployed as a result of a noncollision event during accident sequence (e.g., fire, explosion, electrical)
- (9) Unknown

Did Air Bag System Fail?

- (O) Not equipped/not available
- (1) No
- (2) Yes (specify):
- (9) Unknown

AUTOMATIC BELTS

		Left	Right
	Availability/Function		
F - RST	Use		
	Туре		
	Proper Use		
	Failure Modes		

Automatic (Passive) Belt System Availability/Function

- (0) Not equipped/not available
- (1) 2 point automatic belts
- (2) 3 point automatic belts
- (3) Automatic belts type unknown

Non-functional

- (4) Automatic belts destroyed or rendered inoperative
- (9) Unknown

Automatic (Passive) Belt System Use

- (O) Not equipped/not available/destroyed or rendered inoperative
- (1) Automatic belt in use
- (2) Automatic belt not in use (manually disconnected, motorized track inoperative)
- (3) Automatic belt use unknown
- (9) Unknown

Autometic (Passive) Belt System Type

- (0) Not equipped/not available
- (1) Non-motorized system
- (2) Motorized system
- (9) Unknown

Proper Use of Automatic (Passive) Belt System

- (O) Not equipped/not available/not used
- (1) Automatic belt used properly
- (2) Automatic belt used properly with child safety seat

Automatic Belt Used Improperly

- (3) Automatic shoulder belt worn under arm
- (4) Automatic shoulder belt worn behind back
- (5) Automatic belt worn around more than one person
- (6) Lap portion of automatic belt worn on abdomen
- (7) Automatic lap and shoulder belt or automatic shoulder belt used improperly with child safety seat (specify):
- (8) Other improper use of automatic belt system (specify):
- (9) Unknown

Automatic (Passive) Belt Failure Modes During Accident

- (0) Not equipped/not available/not in use
- (1) No automatic belt failure(s)
- (2) Torn webbing (stretched webbing not included)
- (3) Broken buckle or latchplate
- (4) Upper anchorage separated
- (5) Other anchorage separated (specify):
- (6) Broken retractor
- (7) Combination of above (specify):
- (8) Other automatic belt failure (specify):
- (9) Unknown

MANUAL RESTRAINTS

NOTES: Encode the applicable data for each seat position in the vehicle. The attribute for the variable may be found below. Restraint systems should be assessed during the vehicle inspection then coded on the Ocupant Assessment Form.

If a Child safety seat is present, encode the data on the back of this page.

If the vehicle has automatic restraints available, encode the appropriate data on the back of the previous page.

		Left	Center	Right
F RST	Availability	4	0	4
	Use	04	00	04
S T	Failure Modes		0	
S	Availability	4		1
SECOZD	Use	64	00	60
N D	Failure Modes	1	0	0
T H	Availability			
1	Use			
R D OT H E R	Failure Modes			
	Availability			
	Use			
	Failure Modes			

Manual (Active) Belt System Availability

- (0) None available
- (1) Belt removed/destroyed
- (2) Shoulder belt
- (3) Lap belt
- (4) Lap and shoulder belt
- (5) Belt available type unknown

Integral Belt Partially Destroyed

- (6) Shoulder belt (lap belt destroyed/removed)
- (7) Lap belt (shoulder belt destroyed/removed)
- (8) Other belt (specify):
- (9) Unknown

Manual (Active) Belt System Use

- (00) None used, not available, or belt removed/destroyed
- (01) Inoperable (specify):
- (02) Shoulder belt
- (03) Lap belt
- (04) Lap and shoulder belt
- (05) Belt used type unknown

- (08) Other belt used (specify):
- (12) Shoulder belt used with child safety seat
- (13) Lap belt used with child safety seat
- (14) Lap and shoulder belt used with child safety seat
- (15) Belt used with child safety seat type unknown
- (18) Other belt used with child safety seat (specify):
- (99) Unknown if belt used

Manual (Active) Belt Failure Modes During Accident

- (0) No manual belt used or not available
- (1) No manual belt failure(s)
- (2) Torn webbing (stretched webbing not included)
- (3) Broken buckle or latchplate
- (4) Upper anchorage separated
- (5) Other anchorage separated (specify):
- (6) Broken retractor
- (7) Combination of above (specify):
- (8) Other manual belt failure (specify):
- (9) Unknown

When a child safety seat is present the occupant's number using the	t enter the occupant's nuccedes listed below. Co	umber in the fi mplete a colur	rst row and co mn for each c	omplete the co hild safety se	olumn below at present.
Occupant Number					
Type of Child Safety Seat				/	
2. Child Safety Seat Orientation					
3. Child Safety Seat Harness Usage					
4. Child Safety Seat Shield Uasge					
5. Child Safety Seat Tether Usage					
6. Child Safety Seat Make/Model	Specif	y Below for Ea	ach Child Safe	ety Seat	
1. Type of Child Safety Seat		3. Child Safe	ety Seat Harn	ess Usage	
 (0) No child safety seat (1) Infant seat (2) Toddler seat (3) Convertible seat (4) Booster seat (7) Other type child safety se 	at (specify):	5. Child Safe Note: Opt	ety Seat Shiel ety Seat Teth tions Below A child safety se	er Usage are Used for V	/ariables 3-5.
(8) Unknown child safety sea (9) Unknown if child safety se	t type eat used	(01) Afte	ned with Har er market harr ed, not used		
2. Child Safety Seat Orientation		(02) Afte	er market harr		
(00) No child safety seat	/		d safety seat ness/shield/tet		after market
Designed for Rear Facing for This Age/Weight (01) Rear facing		(09) Unk	nown if harne ed or used		ier
(02) Forward facing (08) Other orientation (specifically)	v)• ·		With Harness		
	//. 		ness/shield/tet ness/shield/tet		
(09) Unknown orientation		(19) Unk	nown if harne	ss/shield/teth	er used
Designed for Forward Facing 1 Age/Weight (11) Rear facing (12) Forward facing (18) Other orientation (specific		(21) Harr (22) Harr	If Designed V ness/shield/ten ness/shield/ten nown if harne	ther not used ther used	
/		(99) Unk	nown if child	safety seat u	sed
(19) Unknown orientation		6. Child Safe	atı Saat Make	/Model	
Unknown Design or Orientatio Age/Weight, or Unknown Age (21) Rear facing (22) Forward facing	n For This Weight		nake/model a		number)
(28) Other orientation (specify	<i>(</i>):				
(29) Unknown orientation					
(99) Unknown if child safety	seat used		······································		

CHILD SAFETY SEAT FIELD ASSESSMENT

HEAD RESTRAINTS/SEAT EVALUATION

NOTES: Encode the applicable data for each seat position in the vehicle. The attribute for these variables may be found at the bottom of the page. Head restraint type/damage and seat type/performance should be assessed during the vehicle inspection then coded on the Occupant Assessment Form.

		Left	Center	Right
F	Head Restraint Type/Damage	3	0	3
R	Seat Type	02	00	02
S	Seat Performance	3	0	5
1	Seat Orientation	l	0	L
S	Head Restraint Type/Damage	0	0	0
E C	Seat Type	03	00	03
0 N	Seat Performance		0	6
Ď	Seat Orientation	(0	
Т	Head Restraint Type/Damage			
H	Seat Type			
R	Seat Performance			
	Seat Orientation			
0	Head Restraint Type/Damage			
Ť	Seat Type			
E	Seat Performance			
R	Seat Orientation			

Head Restraint Type/Damage by Occupant at This Occupant Position

- No head restraints
- (1) Integral no damage
 (2) Integral damaged during accident
- (3) Adjustable no damage
 (4) Adjustable damaged during accident
- (5) Add-on no damage
- Add-on damaged during accident
- (8) Other Specify):
- (9) Unknown

Seat Type (this Occupant Position)

- (00) Occupant not seated or no seat
- Bucket (01)
- Bucket with folding back (02)
- (03)Bench
- (04) Bench with separate back cushions
- Bench with folding back(s) (05)
- (06) Split bench with separate back cushions
- (07) Split bench with folding back(s)
- (08) Pedestal (i.e., column supported)
- (09) Other seat type (specify):
- (10) Box mounted seat (i.e., van type)
- (99) Unknown

Seat Performance (this Occupant Position)

- (0) Occupant not seated or no seat
- (1) No seat performance failure(s)
- (2) Seat adjusters failed
- (3) Seat back folding locks or "seat back" failed specify:
- (4) Seat tracks/anchors failed
- (5) Deformed by impact of occupant
- (6) Deformed by passenger compartment intrusion (specify):
- PANE (7) Combination of above (specify):
- (8) Other (specify):
- (9) Unknown

Seat Orientation (this Occupant Position)

- (0) Occupant not seated or no seat
- (1) Forward facing seat
- (2) Rear facing seat
- (3) Side facing seat (inward)
- (4) Side facing seat (outward)
- (8) Other (specify):
- (9) Unknown

DESCRIBE ANY INDICATION OF ABNORMAL OCCUPANT POSTURE (I.E., UNUSUAL OCCUPANT **CONTACT PATTERN)**

EJECTION/ENTRAPMENT DATA Complete the following if the researcher has any indication that an occupant was either ejected from or entrapped in the vehicle. Code the appropriate data on the Occpant Assessment Form. No [Yes [] **EJECTION** Describe indications of ejection and body parts involved in partial ejection(s): **Occupant Number Ejection** (Note on Vehicle Interior Sketch) **Ejection Area** Eiection Medium **Medium Status Ejection** (7) Roof (5) Integral structure (1) Complete ejection (8) Other area (e.g., back of (8) Other medium (specify): (1) Partial ejection pickup, etc.) (specify): (3) Ejection, Unknown degree (9) Unknown (9) Unknown (9) Unknown Medium Status (Immediately Prior **Eiection Area Ejection Medium** to impact) (1) Windshield (1) Door/hatch/tailgate (1) Open (2) Left front (2) Nonfixed roof structure (2) Closed (3) Right front (3) Fixed glazing (3) Integral structure (4) Left rear (4) Nonfixed glazing (specify): (9) Unknown (5) Right rear (6) Rear **ENTRAPMENT** No [📈 Yes [] Describe entrapment mechanism: ___ Component(s): (Note in vehicle interior diagram)

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U.S. Department of Transportation National Highway Traffic Safety Administration

INTERVIEW FORM (A)

NATIONAL ACCIDENT SAMPLING SYSTEM CRASHWORTHINESS DATA SYSTEM

1. Primary Sampling Unit Number	Interviewee(s) Role or Name(s): DRIVER
2. Case Number - Stratum 4305	
3. Vehicle Number	
Review all available information and interview of acquisition of all pertinent data.	uestions prior to conducting interview(s) to ensure the
If the driver was not the person interviewed, w	as an appointment made for a follow-up interview?
DRIVER'S DESCRI	PTION OF ACCIDENT EVENTS
I WAS DRIVING ALONG	RORD WHEN MY
AIRBAG SUDDENLY & UN	JEXPECTEDLY INFLATED. MY VEHICLE
DID NOT STRIKE ANTHONE	PRIOR TO THE INFLAMON OF THE
AIRBAG. AFTER THE AIRBA	LINFLATED I APPLIED MY BRAKES &
	HE ROAD. AFTER MI VENICLE WAS
	IG TO CRAWL FROM BETWEEN THE
	EIVER'S SEATBACK, AND AS I WAS
	e's SEAT TO THE RIGHT TRANTSEAT,
A	MY VEHICLE. THE IMPACT RESULTED
	- SIDE DASH & WINDSHELD. MY
AIRBYA REMAINED TIGHT	
	OULDN'T GET DUT THE DRIVER'S
· · · · · · · · · · · · · · · · · · ·	ET DUT THE RIGHT DOON WHEN
The Hit	
- W1:2 - 111	
OCCUPANT'S DESC	CRIPTION OF ACCIDENT EVENTS

						_	_				-	
Λ		~		-	1			IΛ		л		и
-	C	•	u		VI.			IΑ		-	u,	и



NORTH

The use of this diagram is optional. It may serve to aid in relating interviewee accident trajectory data (i.e., pre-impact to FRP orientations) to identifiable objects in the environment.



U.S. Department of Transportation

National Highway Traffic Safety

INTERVIEW FORM (B)

NATIONAL ACCIDENT SAMPLING SYSTEM

dministration	CRASHWORTHINESS DATA SYSTEM
2. Case Number - Stratum 4305	Interviewee(s) Role or Name(s): DEIVER
3. Vehicle Number	
4.0010513	T DATA CLIECTIONS
ACCIDEN	T DATA QUESTIONS
1. Can you tell me in which direction you were trave	eling? 6a. What actions did you take?
[] North [] South [] East [] West	[] Braking with lock-up [] Braking without lock-up
Optional - Where were you coming from or going NOT SURE - GOING HWITY FROM TOWN	- · · · · · · · · · · · · · · · · · · ·
In which lane were you traveling? (Note: Lane 1 is designated as the right curb lane)	[] Other (specify):
[1] [2] [3] [4] [] Other (specify):	7. Where was your vehicle at the time of the collision?
Can you remember your <u>estimated travel speed</u> (in per hour) before the accident?	[] Original travel lane [] Different travel lane miles [] In intersection [] Off roadway to right [] Off roadway to left [] Other (specify):
[] Stopped [] 1-10 [] 10-20 [] 20-30 [] 30-40 [] 40-50 [] 50-60 [] 60-70 [] 70+	8. Was your travel speed at the time of the collision different from your previous travel speed?
4. Just before the accident, can you tell me what you intending to do or were doing? [い] Going straight [] Stopped	[] No [were
[] slowing [] Accelerating [] Turning left [] Turning right [] Changing lanes to left [] Changing lanes to	8a. Can you estimate your speed at the time of the collision?
[] Backing [] Other (specify):	[] Stopped [] 1-10 [] 10-20
5. Did you experience any <u>loss of control</u> due to we conditions or mechanical problems?	9. Immediately following the collision, can you describe how your vehicle moved to its stopped position?
[] No [XYes (If yes, describe below) AUCRIC NEXTED WITHOU AND IMPACT	
Did you have to take any <u>avoidance actions prior</u> <u>accident?</u>	10. Can you tell me how many collisions your vehicle had during the accident and the source of the collisions? to the
[No - Go to question 7 [] Yes - Go to question 6a	
	1

10a. Did the air bag inflate during the accident? [] No (go to questions 10b and 10c)

[] Yes (go to question 10e)

- PRIOR TO ACCIDENT

(Identify seat belts for third row and beyond

Page 3

01

1. Primary Sampling Unit Number NCST 3. Vehicle Number 9 3 0 5 4. Occupant Number 2. Case Number - Stratum **VEHICLE/DRIVER DATA QUESTIONS (CONTINUED)** 10b. Was the air bag wiring disconnected prior to the accident? [W No [] Yes (If "Yes", describe previous condition) [] Unknown 10c. Was your vehicle involved in any accidents prior to this accident which inflated the air bag? [No (go to question 11) [] Yes (go to question 10d) [] Unknown 10d. Was the air bag re-installed after the accident? No (go to guestion 11) [] Yes [] Unknown 10e. Did the air bag inflate as you expected? [No (If "No" describe below) PRIOR TO ACCIDENT, & REMAINED INFLATED [] Yes [] Unknown 11. Is your vehicle equipped with a passenger side air bag? [Y No (If "No", go to question 12) [] Yes (If "Yes", go to question 11a) [] Unknown (If "Unknown", go to question 12) 11a. Did the passenger air bag inflate during the accident? [] No (go to question 11b) [] Yes (go to question 12) 11b. Was the passenger air bag wiring disconnected prior to the accident?

[] Yes [] Unknown

100.	accident?	CHILD SAFETY SEAT
	[4] No	
	Yes (If "Yes", describe previous condition)	12. Was there a person in a child safety seat in your vehicle?
		No (If "No", go to question 13)
	[] Unknown	[] Yes [] Unknown
10c.	Was your vehicle involved in any accidents prior to this	
	accident which inflated the air bag?	12a. Can you tell me the manufacturer and model of the
	[No (go to question 11)	child safety seat?
	[] Yes (go to question 10d)	
	[] Unknown	
104	Was the air bag re-installed after the accident?	12b. Can you describe the type of child safety seat?
TOU.	[Y No (go to question 11)	[] Infant
	[] Yes	[] Toddler
	[] Unknown	[] Convertible
	[] Olikliowii	[] Booster
10e	Did the air bag inflate as you expected?	[] Other (specify):
	[No (If "No" describe below)	[] Unknown
	PRIOR TO ACCIDENT, E	
	1) Yes REMAINED INFLATED	12c. Where was the child safety seat(s) located?
	[] Unknown	[12] [13]
	• • • • • • • • • • • • • • • • • • • •	[21] [22] [23]
11.	Is your vehicle equipped with a passenger side air bag?	[31] [32] [33]
	[No (If "No", go to question 12)	[Other] (specify):
	[] Yes (If "Yes", go to question 11a)	
	[] Unknown (If "Unknown", go to question 12)	12d. Can you tell me which direction the child safety seat
		was facing prior to the accident?
11a.	Did the passenger air bag inflate during the accident?	[] Rear facing
	[] No (go to question 11b)	[] Forward facing,
	[] Yes (go to question 12)	[] Other (specify):
11h	Was the passenger air bag wiring disconnected prior to	() Chichewit
ııb.	the accident?	12e. Was a seat belt used to hold the child seat in place?
	[] No	[] No (If "No", go to fquestion 12g)
	[] Yes (If "Yes", describe below)	[] Yes (If "Yes", go to question 12f)
		[] Unknown
	[] Unknown	12f. Can you describe how the seat belt was secured to the
		child seat?
11c.	Was the passenger air bag inflated in a previous	[] Looped through designated rear framing struts?
	accident?	[] Looped through arm rest slots?
	[] No (go to question 12)	[] Belt across safety shield? [] Looped through rear frame outside the designated
	[] Yes (go to question 11d)	framing struts?
	[] Unknown	[] Other (specify):
114	Mee the personner of her as installed after the	[] Unknown
110.	Was the passenger air bag re-installed after the accident?	, , , , , , , , , , , , , , , , , , , ,
	[] No (go to question 12)	12g. What was the child safety seat equipped with at the
	[] Yes	time of purchase? (check all that apply)
	[] Unknown	[] Harness
	. ,	[] Shield
11e.	Did the passenger air bag inflate as you expected?	[] Tether strap
	[] No (If "No" describe below)	
		If any box is checked, ask questions 12h - 12i.

1. Primary Sampling Unit Number 2. Case Number - Stratum 3. Vehicle Number 4. Occupant Number VEHICLE/DRIVER DATA QUESTIONS (CONTINUED) OPTIONAL 12h. Were any of these items added after you owned the child safety seat? Yes (specify)	cated?
VEHICLE/DRIVER DATA QUESTIONS (CONTINUED) 12h. Were any of these items added after you owned the child safety seat? [] Yes	owner's cated?
OPTIONAL 2h. Were any of these items added after you owned the child safety seat? [] Yes (specify) [] No [] Unknown 2i. Were any of these items used during the accident? [] Yes (If "Yes", check all that apply)	cated?
2h. Were any of these items added after you owned the child safety seat? [] Yes	cated?
child safety seat? [] Yes	cated?
[] Yes (If "Yes", check all that apply) () Harness () Shield () Tether strap) [] No [] Unknown CARGO WEIGHT AND MILEAGE 13. Was there any cargo in your vehicle? No (If "No", go to question 14) [] Yes (If "Yes", go to question 13a) [] Unknown Idaa. Can you estimate the weight of the cargo?	ess the
DRIVER ONLY	
[] White [] Black [No (If "No", go to question 14) [] Yes (If "Yes", go to question 13a) [] Unknown [] Other (specify: [] Unknown. Ja. Can you estimate the weight of the cargo? Ibs. 18. Are you of hispanic origin?	
14. Can you tell me the mileage on the vehicle?miles	

National Accident Sampling System-Crashworthiness Data	System: Interview Form Page 5						
1. Primary Sampling Unit Number NCSI	3. Vehicle Number						
2. Case Number - Stratum <u>4305</u>	4. Occupant Number						
OCCUPANT DATA QUESTIONS							
1. Was there anyone else in your vehicle at the time of the accident? [Y No (If "No", go to question 4) [] Yes (If "Yes", specify number in question 2 below and then go to question 3) [] Unknown	5d. Were you (Was he/she) [] Sitting upright or [] Leaning to left side, or [] Leaning to right side? OCCUPANT EJECTION						
2. How many? [1] One other person [2] Two other persons [3] Three other persons [4] Four other persons [5] Five other persons [6] Six other persons [7] Seven or more other persons (specify number:) 3. Where was this person sitting? (Circle seating positions)	6. Were you (Was he/she) or any part of your (his/her) body thrown from the vehicle during the accident? [V] No (If "No", go to question 7) [] Yes (If "Yes", go to question 6a) [] Unknown 6a. Can you remember what part of the vehicle you were (he/she was) thrown out? [] No [] Yes (Describe:)						
[12] [13] [21] [22] [23] [31] [32] [33] [] Other (specify:)	7. Were you (Was he/she) wearing a seat belt just before the accident? [] No (If "No", go to question 8)						
OCCUPANT CHARACTERISTICS	[TYES NOT ATTIME OF [] Unknown MIACTW/Z						
4. Can I have your (his/her) height, weight, age, and sex? Height Weight Age Sex: [] Male [/ Female	7a. Were you (Was he/she) wearing the [] Lap belt? [] Lap and Shoulder belt? [] Shoulder belt?						
OCCUPANT POSTURE 5. Can you tell me how you (he/she was) were sitting in your vehicle? SEE PAGE ONE	7b. Can you describe how you were (he/she was) wearing the lap belt? [] Across the stomach [] Low on lap [] Other (specify:) [] Unknown						
5a. Can you describe the location of your (his/her) feet just prior to the collision?	7c. Can you describe how you were (he/she was) wearing the shoulder belt? [1 Over the shoulder [] Under the arm [] Behind the back [] Behind the seat [] Other (specify:) 7d. Did any part of the belt system break or tear?						
5b. Can you describe the location of your (his/her) arms?	[] Ves (If "Yes", describe)						
5c. Was your (his/her) back resting against the seat back rest? [] No (If "No", describe the position) [] Yes [] Unknown	OCCUPANT ENTRAPMENT 8. Were you (Was he/she) trapped in the vehicle? [] No [] Yes (If "Yes", describe)						
	[] Unknown						

PSU Number NC4T Case Number Stratum 9305 Vehicle Number 01



Occupant Number 0

INJURY DATA FROM INTERVIEWEE(S)

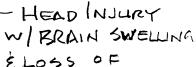
Indicate the Location, Lesion, Detail, and Source of all injuries. Specify interviewee(s):

DRIVER



FOREHEAD LACERATIONS

& ABRASIONS



ELOSS OF CONSCIOUSNESS

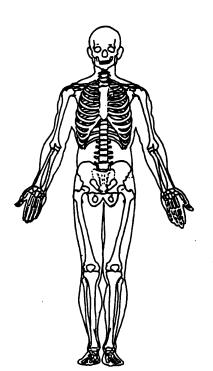
WIS

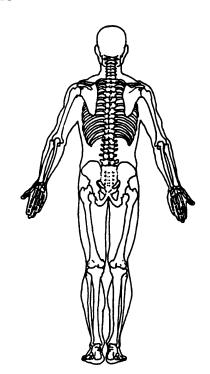
-LUNG

CONTUSIONS



SKELETAL INJURIES





The space provided on the back of this page may be used to document injuries noted by the interviewee(s).

1	Primary	Sampling	Unit	Number
ι.	FIMILALY	Samping	Ullit	Nullipe

NCST 3. Vehicle Number

2. Case Number - Stratum

4. Occupant Number

	OCCUPANT INJURY	DATA QUESTIONS
1.	Were you (Was he/she) injured? [] No (If "No", go to next occupant. Stop if no other occupant.) [(**Yes (If "Yes", complete Occupant Injury Questions) [] Unknown	5a. Do you know what caused this injury? [] No [나 Yes (If "Yes", specify the component(s) on the manikin(s).) [] Unknown
2.	Did you (he/she) receive any cuts, abrasions, or bruises? [] No (go to question 3) [v Yes (If "Yes", record the exact location(s) and size on the manikin(s).) [] Unknown	6. Did you (he/she) suffer any joint sprains or muscle strains? [→ No (If "No", go to question 7) [] Yes (If "Yes", specify on the manikin(s), and then go to question 6a.) [] Unknown
2a.	Do you know what caused your (his/her) injury(s)? [] No [] Yes (If "Yes", specify the component(s) or object(s) on the manikin(s).) [] Unknown	6a. Do you know what caused the injury(s)? [] No [] Yes (If "Yes", specify the component(s) on the manikin(s).) [] Unknown
3.	Did you (he/she) experience any broken bones? [No (If "No", go to question 4) [] Yes (If "Yes", record the exact location(s) and type of fracture(s) on the manikin(s), and then go to question 3a.) [] Unknown	7. Did you (he/she) receive treatment for your (his/her) injury(s)? [] No (If "No", go to question 8) [Yes (If "Yes", go to question 7a)
3a.	Do you know what caused the injury(s)? [] No [] Yes (If "Yes", specify the component(s) or object(s) on the manikin(s).) [] Unknown	7a. Were you (Was he/she) treated by: [Hospital/trauma center? (specify hospital name): [] Medical clinic [] Out patient surgery? (specify medical facility:)
4.	Did you (he/she) injure your (his/her) head? [] No (If "No", go to question 5) [U Yes (If "Yes", describe the type of injury(s) on the manikin(s), then go to question 4a.) [] Unknown	 [] Paramedics or first aid at the scene? [] A doctor in his/her office? [] Treated at home? [] None of the above, go to question 8. 7b. Were you (Was he/she) treated and released from the emergency room?
4a.	Do you know what caused the injury(s)? [] No [] Yes (If "Yes", specify the component(s) on the manikin(s).) [] Unknown	[] No (If "No", go to question 7c.) [] Yes (If "Yes", go to question 7e.) 7c. Were you (Was he/she) hospitalized? [] No (If "No", give an explanation) [] Yes (If "Yes", go to question 7d.)
5.	Were any of your (his/her) internal organs injured? [] No (If "No", go to question 6) [Yes (If "Yes", thoroughly describe the type of injury(s) and specify the internal organ(s) injured on the manikin(s), and then go to question 5a.) [] Unknown	7d. How many days were you (was he/she) in the hospital?

Primary Sampling Unit Number NCSI	3. Vehicle Number
. Case Number - Stratum 9305	4. Occupant Number <u>O</u>
OCCUPANT INJURY DATA	QUESTIONS (CONTINUED)
(e. Have you (Has he/she) received any follow-up treatment? [] No [] Yes (If "Yes", describe:)	8. Have you (he/she) lost any days from work or school (college)? [] No [U Yes (If "Yes", determine the number of days lost (Specify:) LOST JOB DUE TO [] Not working prior to the accident ACCIDENT
7f. In order to achieve the best possible scientific data regarding your (his/her) injury(s), we need to obtain a copy of your (his/her) medical reports. Would you (he/she) sign a medical release form? [] No [] Yes (If "Yes", mail or present the form for signature.)	



U.S. Department of Transportation

OCCUPANT ASSESSMENT FORM

Form Approved
O.M.P. No. 2127-0021

NATIONAL ACCIDENT SAMPLING SYSTEM CRASHWORTHINESS DATA SYSTEM

National Highway Traffic Safety

dministration	CRASHWORTHINESS DATA SYSTEM
1. Primary Sampling Unit Number NCSI	OCCUPANT'S SEATING
2. Case Number - Stratum 9305	10. Occupant's Seat Position
3. Vehicle Number	(11) Left side
4. Occupant Number	(12) Middle (13) Right side
OCCUPANT'S CHARACTERISTICS	(14) Other (specify): (15) On or in the lap of another occupant
5. Occupant's Age Code actual age at time of accident. (00) Less than one year old (specify by month): (97) 97 years and older (99) Unknown	Second Seat (21) Left side (22) Middle (23) Right side (24) Other (specify): (25) On or in the lap of another occupant
6. Occupant's Sex (1) Male (2) Female (9) Unknown	Third Seat (31) Left side (32) Middle (33) Right side (34) Other (specify): (35) On or in the lap of another occupant
7. Occupant's Height Code actual height to the nearest centimeter. (999) Unknown 62 1/2 Thiches X 2.54 = 159 centimeters	Fourth Seat (41) Left side (42) Middle (43) Right side (44) Other (specify): (45) On or in the lap of another occupant (97) In or on unenclosed area (98) Other seat (specify): (99) Unknown
8. Occupant's Weight Code actual weight to the nearest kilogram. (999)Unknown	11. Occupant's Posture (0) Normal posture
9. Occupant's Role (1) Driver (2) Passenger (9) Unknown	Abnormal posture (1) Kneeling or standing on seat (2) Lying on or across seat (3) Kneeling, standing or sitting in front of seat (4) Sitting sideways or turned to talk with another occupant or to look out a rear window (5) Sitting on a console (6) Lying back in a reclined seat position (7) Bracing with feet or hands on a surface in front of seat (8) Other abnormal posture (specify): CRAULING FROM WITHOUT (9) Unknown SEMT TO CICHT
	

EJECTION/ENTRAPMENT				
12. Ejection (0) No ejection (1) Complete ejection (2) Partial ejection (3) Ejection, unknown degree (9) Unknown	<u>o</u>	15. Medium Status (Immediately Prior To Impact) (O) No ejection (1) Open (2) Closed (3) Integral structure (9) Unknown		
13. Ejection Area (0) No ejection (1) Windshield (2) Left front (3) Right front (4) Left rear (5) Right rear (6) Rear (7) Roof (8) Other area (e.g., back of pickup, etc.) (specify): (9) Unknown	0	16. Entrapment (NOTE: Entrapped means that part of the person was in the vehicle and mechanically restrained; jammed doors and immobilizing injuries by themselves are not sufficient to constitute entrapment.) (0) Not entrapped (1) Entrapped (9) Unknown		
14. Ejection Medium (0) No ejection (1) Door/hatch/tailgate (2) Nonfixed roof structure (3) Fixed glazing (4) Nonfixed glazing (specify): (5) Integral structure (8) Other medium (specify): (9) Unknown	0			

	RESTRAINT SYS	STEM EVALUATION	
17.	Manual (Active) Belt System Availability (0) None available (1) Belt removed/destroyed (2) Shoulder belt (3) Lap belt	21. Air Bag System Availability/Function (0) Not equipped/not available (1) Air bag	L
	(3) Lap belt(4) Lap and shoulder belt(5) Belt available—type unknown	Non-functional (2) Air bag disconnected (specify):	
	Integral Belt Partially Destroyed (6) Shoulder belt (lap belt destroyed/removed) (7) Lap belt (shoulder belt destroyed/removed)	(3) Air bag not reinstalled (9) Unknown	_
	(8) Other belt (specify):	22. Air Bag System Deployment (0) Not equipped/not available	<u></u>
	(9) Unknown	(1) Air bag deployed during accident (as a result of impact)	
18.	Manual (Active) Belt System Use (00) None used, not available, or belt removed/destroyed	(3) Air bag deployed, accident sequence	
	(O1) Inoperative (specify):	undetermined (4) Nondeployed	
	(O2) Shoulder belt (O3) Lap belt (O4) Lap and shoulder belt	(5) Unknown if deployed (6) Air bag deployed as a result of a noncollision event during accident sequence (e.g., fire,	
	(05) Belt used—type unknown (08) Other belt used (specify):	explosion, electrical) (9) Unknown	
	 (12) Shoulder belt used with child safety seat (13) Lap belt used with child safety seat (14) Lap and shoulder belt used with child safety seat 	23. Are There Indications of Air Bag System Failure?	
	safety seat (15) Belt used with child safety seat—type unknown (18) Other belt used with child safety seat	n (O) Not equipped/not available (1) No	_
	(specify): (99) Unknown if belt used	(2) Yes (specify):	
19.	Proper Use of Manual (Active) Belts		
•	(0) None used or not available (1) Belt used properly (2) Belt used properly with child safety seat	Note: See Variables 44 through 48 (Page 5) for Information on Automatic Belts	
	Belt Used Improperty (3) Shoulder belt worn under arm (4) Shoulder belt worn behind back or seat	24. Police Reported Restraint Use (0) None used	2
	(5) Belt worn around more than one person(6) Lap belt worn on abdomen(7) Lap belt or lap and shoulder belt used	(1) Police did not indicate restraint use (2) Shoulder belt (3) Lap belt	
	improperly with child safety seat (specify):	(4) Lap and shoulder belt (5) Belt used, type not specified	
	(8) Other improper use of manual belt system (specify):	(6) Child safety seat(7) Other or automatic restraint (specify):	
	(9) Unknown	(8) Restrained, type unknown (9) Police indicated "unknown"	
20.	Manual (Active) Belt Failure Modes During Accident	_	
	 (0) No manual belt used (1) No manual belt failure(s) (2) Torn webbing (stretched webbing not 		
	included) (3) Broken buckle or latchplate (4) Upper anchorage separated		
	(5) Other anchorage separated (specify):		
	(6) Broken retractor (7) Combination of above (specify):		
	(8) Other manual belt failure (specify): (9) Unknown		
	(a) Chichowh		

	HEAD RESTRAI	NT AI	AND SEAT EVALUATION	
at TI (0) (1) (2) (3) (4) (5) (6) (8) (9) . Seat (00) (01) (02) (03) (04) (05) (06) (07) (08) (09)	d Restraint Type/Damage by Occupant his Occupant Position No head restraints Integral—no damage Integral—damaged during accident Adjustable—no damage Adjustable—damaged during accident Add-on—no damage Add-on—damaged during accident Other (specify): Unknown	3		

	СНІ	LD SAF	ETY	SEA	\T			
28.	Child Safety Seat Make/Model (000) No child safety seat Applicable codes are found in your NASS CI	2 <u>0</u>	31.	Child	Safety Seat	: Harness Usa	ıge	00
	Data Collection, Coding and Editing (950) Built-in child safety seat (997) Other make/model (specify):					Shield Usage		00
	(998) Unknown make/model (999) Unknown if child safety seat used			Note: Variab				00
29.	Type of Child Safety Seat (0) No child safety seat (1) Infant seat (2) Toddler seat (3) Convertible seat (4) Booster seat (7) Other type child safety seat (specify): (8) Unknown child safety seat type (9) Unknown if child safety seat used	0		(01) 4 (02) 4 (03) ((09) (3 Design (11) 1 (12) 1	After marke added, not a After marke Child safety harness/shid added or us ned With Harness/shid Harness/shid Harness/shid	t harness/shid seat used, beld/tether add harness/shieled ed arness/Shield/ eld/tether not eld/tether use	eld/tether eld/tether out no after led ld/tether /Tether t used	used r market
	Child Safety Seat Orientation (00) No child safety seat Designed for Rear Facing for This Age/Weight (01) Rear facing (02) Forward facing (08) Other orientation (specify): (09) Unknown orientation Designed For Forward Facing for This Age/Weight (11) Rear facing (12) Forward facing (18) Other orientation (specify): (19) Unknown orientation Unknown Design or Orientation For This Age/Weight, or Unknown Age/Weight (21) Rear facing (22) Forward facing (23) Other orientation (specify): (29) Unknown orientation (99) Unknown if child safety seat used		,	<i>Unkno</i> (21) (22) (29)	own If Desig Harness/shi Harness/shi Unknown if	harness/shiel aned With Har eld/tether not eld/tether use harness/shiel child safety s	rness/Shie t used ed ld/tether us	ld/Tether

	INJURY CONSEQUENCES		99
		38.	Working Days Losti
34.	Injury Severity (Police Rating)		Code the number of days
		1	(up through 60) that the occupant lost from work due to the accident
	(0) O - No injury	1 .	(00) No working days lost
	(1) C - Possible injury(2) B - Nonincapacitating injury		(61) 61 days or more
	(3) A - Incapacitating injury	1 ,	(62) Fatally injured
	(4) K - Killed		(97) Not working prior to accident
	(5) U - Injury, severity unknown		(99) Unknown
	(6) Died prior to accident		
	(9) Unknown	ST	OP - GO TO VARIABLE 44 ON PAGE 7
35.	Treatment - Mortality 3		RIABLES 39 THROUGH 43 ARE
٠٠.	(0) No treatment		MPLETED BY THE ZONE CENTER
	(1) Fatal		
	(2) Fatal - ruled disease (specify):	39.	Time to Death
			Code number of hours from time of
	Nonfatal		accident to time of death up through 24
	(3) Hospitalization		hours. If time of death is greater than 24
	(4) Transported and released		hours, code number of days. (Note: 1 day =
	(5) Treatment at scene - nontransported		31, 2 days = 32, n days = 30 +n up through 30 days = 60)
	(6) Treatment later		(00) Not fatal
	(8) Treatment - other (specify):		(96) Fatal - ruled disease
	(9) Unknown	1 ((99) Unknown
	(3) Olikilowii		
	4	- 40	1st Medically Reported Cause of Death O
36.	Type Of Medical Facility (for Initial Treatment)	70.	ist Medically Reported Cause of Death
	(0) Not treated at a medical facility	41.	2nd Medically Reported Cause of Death
	(1) Trauma center (2) Hospital		
	(3) Medical clinic	42.	3rd Medically Reported Cause of Death _O_O
	(4) Physician's office	1 :	Code the Occupant Injury from line number(s) for the medically reported
	(5) Treatment later at medical facility		njury(s) which reportedly contributed to
	(8) Other (specify):		this occupant's death
	(9) Unknown		00) Not fatal or no additional causes
	(9) Onknown	(97) Other result (includes fatal ruled
			disease) (specify):
37.	Hospital Stay	1,	99) Unknown
	(OO) Not Hospitalized	1 '	55) Chillown
	Code the number of days (up through 60)		
	that the occupant stayed in hospital. (61) 61 days or more		Number of Recorded Injuries for
	(99) Unknown] 7	This Occupant 55
	,,	-	Code the actual number of njuries recorded for this occupant.
			00) No recorded injuries
			97) Injured, details unknown
			99) Unknown if injured
		J	

44.	AUTOMATIC BELT SYSTEM Automatic (Passive) Belt System Availability/	0	Automatic (Passive) Belt Failure I During Accident (0) Not equipped/not available/no	
	Function (0) Not equipped/not available (1) 2 point automatic belts (2) 3 point automatic belts (3) Automatic belts - type unknown		 (1) No automatic belt failure(s) (2) Torn webbing (stretched web (3) Broken buckle or latchplate (4) Upper anchorage separated (5) Other anchorage separated (s 	bing not included)
	Non-functional (4) Automatic belts destroyed or rendered inoperative (9) Unknown		(6) Broken retractor (7) Combination of above (specif (8) Other automatic belt failure (s	
45.	Automatic (Passive) Belt System Use (0) Not equipped/not available/destroyed or	2	(9) Unknown	
	rendered inoperative (1) Automatic belt in use (2) Automatic belt not in use (manually disconnected, motorized track inoperative) (specify): (3) Automatic belt use unknown (9) Unknown		Seat Orientation (this Occupant I (0) Occupant not seated or no se (1) Forward facing seat (2) Rear facing seat (3) Side facing seat (inward) (4) Side facing seat (outward) (8) Other (specify):	
40		$\overline{}$	(9) Unknown	
46.	Automatic (Passive) Belt System Type (0) Not equipped/not available (1) Non-motorized system (2) Motorized system (9) Unknown	2	TOP - VARIABLES 50 THROU OMPLETED BY THE ZONE C	IGH 52 ARE NTER
		ľ	TRAUMA DATA	
47.	Belt System (0) Not equipped/not available/not used (1) Automatic belt used properly (2) Automatic belt used properly with child safety seat Automatic Belt Used Improperly (3) Automatic shoulder belt worn under arm (4) Automatic shoulder belt worn behind back (5) Automatic belt worn around more than	0	. Glasgow Coma Scale (GCS) Scor (at Medical Facility) (00) Not injured (01) Injured - not treated at medical facility. (02) No GCS Score at medical facility. (03-15) Code the actual value of initial GCS Score recorded a facility. (97) Injured, details unknown (99) Unknown if injured	cal facility cility the
	one person (6) Lap portion of automatic belt worn on abdomen (7) Automatic lap and shoulder belt or automatic shoulder belt used improperly with child safety seat (specify):		. Was the Occupant Given Blood? (1) No - blood not given (2) Yes - blood given (specify units): (9) Unknown if blood given	
	(8) Other improper use of automatic belt system (specify):		. Arterial Blood Gases (ABG) – HC	0 2
	(9) Unknown		(00) Not injured (01) Injured, ABGs not measured (02-50) Code the actual value of (96) ABGs reported , HCO ₃ unkr (97) Injured, details unknown (99) Unknown if injured	or reported the HCO ₃
	ARE ALL APPLICABLE MEDICAL REC	COR	INCLUDED NO [1	YES[]
	UPDATE CANDIDAT	E?	NO [1 YES []	



U.S. Department of Transportation

National Highway Traffic Safety Administration

GENERAL VEHICLE FORM

NATIONAL ACCIDENT SAMPLING SYSTEM CRASHWORTHINESS DATA SYSTEM

1. Primary Sampling Unit Number 2. Case Number - Stratum 3. Vehicle Number VEHICLE IDENTIFICATION	11. Police Reported Alcohol Presence (0) No alcohol present (1) Yes (alcohol present) (7) Not reported (8) No driver present (9) Unknown Note: See variables 37 through 55
4. Vehicle Model Year Code the last two digits of the model year (99) Unknown 5. Vehicle Make (specify): PONTIME Applicable codes are found in your NASS Data Collection, Coding and Editing Manual. (99) Unknown	(Page 4) for information on Other Drugs 12. Alcohol Test Result For Driver Code actual value (decimal implied before first digit—0.xx) (95) Test refused (96) None given (97) AC test performed, results unknown (98) No driver present (99) Unknown Source:
6. Vehicle Model (specify): Applicable codes are found in your NASS Data Collection, Coding and Editing Manual. (999) Unknown	13. Speed Limit (000) No statutory limit Code posted or statutory speed limit in kph (999) Unknown
 7. Body Type Note: Applicable codes may be found on the back of this page. 8. Vehicle Identification Number 162NV69L3 	14. Attempted Avoidance Maneuver (00) No impact (01) No avoidance actions (02) Braking (no lockup) (03) Braking (lockup) (04) Braking (lockup unknown) (05) Releasing brakes
Left justify; Slash zeros and letter Z (0 and Z) No VIN—Code all zeros Unknown—Code all nine's OFFICIAL RECORDS 9. Police Reported Vehicle Disposition (0) Not towed due to vehicle damage (1) Towed due to vehicle damage (9) Unknown	(06) Steering left (07) Steering right (08) Braking and steering left (09) Braking and steering right (10) Accelerating (11) Accelerating and steering left (12) Accelerating and steering right (97) No driver present (98) Other action (specify):
10. Police Reported Travel Speed 999 Code to the nearest kph (NOTE: 000 means less than 0.5 kph) (160) 159.5 kph and above (999) Unknown mph X 1.6093 = kph	15. Accident Type Applicable codes may be found on the back of page two of this field form (00) No impact Code the number of the diagram that best describes the accident circumstance (98) Other accident type (specify): (99) Unknown
**** SKIP TO VARIABLE GV37 IF G	V07 DOES NOT EQUAL 01-49 ****

CODES FOR BODY TYPE

CDS APPLICABLE VEHICLES

Automobiles

- (01) Convertible (excludes sun-roof, t-bar)
- (02) 2-door sedan, hardtop, coupe
- (03) 3-door/2-door hatchback
- (04) 4-door sedan, hardtop
- (05) 5-door/4-door hatchback
- (06) Station wagon (excluding van and truck based)
- (07) Hatchback, number of doors unknown
- (08) Other automobile type (specify):
- (09) Unknown automobile type

Automobile Derivatives

- (10) Auto based pickup (includes El Camino, Caballero, Ranchero, Brat, and Rabbit pickup)
- (11) Auto based panel (cargo station wagon, auto based ambulance/hearse)
- (12) Large limousine more than four side doors or stretched chassis
- (13) Three-wheel automobile or automobile derivative

Utility Vehicles (≤ 4,500 kgs GVWR)

- (14) Compact utility (Jeep CJ-2 CJ-7, Scrambler, Golden Eagle, Renegade, Laredo, Wrangler, Cherokee [84 and after], Dispatcher, Raider, Bronco II, Bronco [76 and before], Explorer, S-10 Blazer, Geo Tracker, Bravada, S-15 Jimmy, Thing, Pathfinder, Trooper, Trooper II, Rodeo, Amigo, Navajo, 4-Runner, Montero, Samurai, Sidekick, Rocky)
- (15) Large utility (includes Jeep Cherokee [83 and before], Ramcharger, Trailduster, Bronco-fullsize [78 and after], fullsize Blazer, fullsize Jimmy, Landcruiser, Rover, Scout)
- (16) Utility station wagon (Chevy Suburban, GMC Suburban, Travelall, Grand Wagoneer, includes suburban limousine)
- (19) Utility, unknown body type

Van Based Light Trucks (≤ 4,500 kgs GVWR)

- (20) Minivan (Chrysler Town and Country, Caravan, Grand Caravan, Voyager, Grand Voyager, Mini-Ram, Dodge/Plymouth Vista, Aerostar, Villager, Lumina APV, Trans Sport, Silhouette, Astro, Safari, Toyota Van, Toyota Minivan, Previa, Nissan Minivan, Quest, Mitsubishi Minivan, Vanagon/Camper.)
- (21) Large van (B150-B350, Sportsman, Royal, Maxiwagon, Ram, Tradesman, Voyager [83 and before], E150-E350, Econoline, Clubwagon, Chateau, G10-G30, Chevy Van, Beauville, Sport Van, G15-G35, Rally Van, Vandura.)
- (22) Step van or walk-in van (≤ 4,500 kgs GVWR)
- (23) Van based motorhome (≤ 4,500 kgs GVWR)
- (24) Van based school bus (≤ 4,500 kgs GVWR)
- (25) Van based other bus (≤ 4,500 kgs GVWR)
- (28) Other van type (Hi-Cube Van, Kary) (specify):
- (29) Unknown van type

Light Conventional Trucks (Pickup style cab, ≤ 4,500 kgs GVWR)

- (30) Compact pickup (D50, Colt P/U, Ram 50, Dakota, Arrow Pickup [foreign], Ranger, Courier, S-10, T-10, LUV, S-15, T-15, Sonoma, Datsun/Nissan Pickup, P'up, Mazda Pickup, Toyota Pickup, Mitsubishi Pickup)
- (31) Large Pickup (Jeep Pickup, Comanche, Ram Pickup, D100-D350, W100-W350, F100-F350, C10-C35, K10-K35, R10-R35, V10-V35, Silverado, Sierra, R100-R500,)

- (32) Pickup with slide-in camper
- (33) Convertible pickup
- (39) Unknown pickup style light conventional truck type

Other Light Trucks (≤ 4,500 kgs GVWR)

- (40) Cab chassis based (includes rescue vehicles, light stake, dump, and tow truck)
- (41) Truck based panel
- (42) Light truck based motorhome (chassis mounted)
- (45) Other light conventional truck type
- (48) Unknown light truck type
- (49) Unknown light vehicle type (automobile, utility, van, or light truck)

OTHER VEHICLES

Buses (Excludes Van Based)

- (50) School bus (designed to carry students, not cross country or transit)
- (58) Other bus type (e.g., transit, intercity, bus based motorhome) (specify):
- (59) Unknown bus type

Medium/Heavy Trucks (> 4,500 kgs GVWR)

- (60) Step van (> 4,500 kgs GVWR)
- (61) Single unit straight truck (4,500 kgs < GVWR ≤ 8,850 kgs)
- (62) Single unit straight truck (8,850 kgs < GVWR ≤ 12,000 kgs)</p>
- (63) Single unit straight truck (> 12,000 kgs GVWR)
- (64) Single unit straight truck, GVWR unknown
- (65) Medium/heavy truck based motorhome
- (67) Truck-tractor with no cargo trailer
- (68) Truck-tractor pulling one trailer
- (69) Truck-tractor pulling two or more trailers
- (70) Truck-tractor (unknown if pulling trailer)
- (78) Unknown medium/heavy truck type
- (79) Unknown truck type (light/medium/heavy)

Motored Cycles (Does Not Include All-Terrain Vehicles/Cycles)

- (80) Motorcycle
- (81) Moped (motorized bicycle)
- (82) Three-wheel motorcycle or moped
- (88) Other motored cycle (minibike, motorscooter) (specify):____
- (89) Unknown motored cycle type

Other Vehicles

- (90) ATV (All-Terrain Vehicle) and ATC (All-Terrain Cycle)
- (91) Snowmobile
- (92) Farm equipment other than trucks
- (93) Construction equipment other than trucks
- (97) Other vehicle type
- (99) Unknown body type

IASI	onal Accident Sampling System-Crashworthiness I	Jat	a System: General Venicle Form	Page 2
	OCCUPANT RELATED		24. Rollover	0
16.	Driver Presence in Vehicle (0) Driver not present (1) Driver present (9) Unknown	_	(0) No rollover (no overturning) **Rollover (primarily about the longitudinal axis (1) Rollover, 1 quarter turn only (2) Rollover, 2 quarter turns	 s)
17.	Number of Occupants This Vehicle (00-96) Code actual number of occupants for this vehicle (97) 97 or more		(3) Rollover, 3 quarter turns (4) Rollover, 4 or more quarter turns (specify	v):
18.	(99) Unknown Number of Occupant Forms Submitted)	(5) Rolloverend-over-end (i.e., primarily about the lateral axis)(9) Rollover (overturn), details unknown	
	VEHICLE WEIGHT ITEMS	_	OVERRIDE/UNDERRIDE (THIS VEHICL	.E)
19.	Vehicle Curb Weight 1, 20	0	25. Front Override/Underride (this Vehicle)	0
	Code weight to nearest 10 kilograms. (045) Less than 450 kilograms		26. Rear Override/Underride (this Vehicle)	0
	(610) 6,100 kilograms or more (999) Unknown		(0) No override/underride, or not an end-to-end impact	
			Override (see specific CDC) (1) 1st CDC (2) 2nd CDC	
20.	Vehicle Cargo WeightO, _O _O	0	(3) Other not automated CDC (specify):	
	10 kilograms. (000) Less than 5 kilograms (450) 4,500 kilograms or more (999) Unknown		Underride (see specific CDC) (4) 1st CDC (5) 2nd CDC	
	, lbs X .4536 =, kgs		(6) Other not automated CDC (specify):	
21	RECONSTRUCTION DATA Towed Trailing Unit	2	(7) Medium/heavy truck or bus override (9) Unknown	
- ' '	(0) No towed unit (1) Yes—towed trailing unit	_		
	(9) Unknown		HEADING ANGLE AT IMPACT FOR HIGHEST DELTA V	
22.	Documentation of Trajectory Data for This Vehicle (0) No (1) Yes	2	Values: (000)-(359) Code actual value (997) Noncollision (998) Impact with object (999) Unknown	
23.	Post Collision Condition of Tree or Pole (For Highest Delta V)	`	27. Heading Angle For This Vehicle	9
	 (0) Not collision (for highest delta V) with tree or pole (1) Not damaged (2) Cracked/sheared (3) Tilted <45 degrees (4) Tilted ≥45 degrees (5) Uprooted tree (6) Separated pole from base (7) Pole replaced (8) Other (specify): 		28. Heading Angle For Other Vehicle 999	9
l	(9) Unknown			

29. Basis for Total Delta V (highest)	Secondary Highest
Delta V Calculated (1) CRASH program—damage only routine (2) CRASH program—damage and trajectory routine (3) Missing vehicle algorithm Delta V Not Calculated (4) At least one vehicle (which may be this vehicle) is beyond the scope of an acceptable reconstruction program, regardless of collision conditions. (5) All vehicles within scope (CDC applicable) of CRASH program but one of the collision conditions is beyond the scope of the CRASH program or other acceptable reconstruction technique, regardless of adequacy of damage data. (6) All vehicle and collision conditions are within scope of one of the acceptable reconstruction programs, but there is insufficient data available. COMPUTER GENERATED DELTA V	32. Lateral Component of Delta V
Secondary Highest 30. Total Delta V 22 Nearest kph (NOTE: 000 means less than 0.5 kph) (160) 159.5 kph and above (999) Unknown	(2) Collision fits model — results appear high (3) Collision fits model — results appear low (4) Borderline reconstruction — results appear reasonable 35. Type of Vehicle Inspection (0) No inspection (1) Complete inspection (2) Partial inspection (specify):
31. Longitudinal Component of Delta V -21 Nearest kph (NOTE: _000 means greater than -0.5 kph and less than +0.5 kph) (±160) ±159.5 kph and above (_999) Unknown	36. Is this an AOPS Vehicle? (0) No (1) Yes - researcher determined (2) VIN determined air bag system (3) VIN determined automatic (passive) belts (4) VIN determined air bag and automatic (passive) belts
IS OLDMISS APPLICABLE FOR THE SECOND IF YES: IS A COMPLETED OLDMISS PROGRA	HIS VEHICLE? []YES [1/NO M SUMMARY INCLUDED? []YES []NO

37. Police Reported Other Drug Presence (0) No other drugs present (1) Yes (other drug present) (7) Not reported	DRUG EVALUATION CLASSIFICATION OTHER DRUGS TEST RESULTS FOR DRIVER DEC Specimen
(8) No driver present (9) Unknown	Test Test Results Results Narcotic Drug 40. 41. 2 Depressant Drug 42. 43.
38. Police Reported Drug Evaluation Classification (DEC) Test For Driver (0) No DEC process available or given (1) DEC process given, results known (2) DEC process given, results unknown (3) DEC process available, unknown if given (8) No driver present	Stimulant Drug 44. 45. Hallucinogen Drug 46. 47. Cannabinoid Drug 48. 49. Phencyclidine (PCP) 50. 51. Inhalant Drug 52. 53. Other Drug (Excluding 54. 55. Nicotine, Aspirin, Alcohol, Drugs Administered Post-Crash)
39. Other Drug Specimen Test Type For Driver (0) No specimen test given (1) Blood test (2) Urine test (3) Other specimen tests (specify): (7) Unspecified specimen test (8) No driver present (9) Unknown if specimen test given	Codes For DEC Test Results (0) No DEC test given (1) Passed DEC test (2) Failed DEC test (3) DEC test given—results unknown (8) No driver present (9) Unknown if DEC test given Codes for Specimen Test Results (0) No specimen test given (1) Drug not found in specimen (2) Drug found in specimen (7) Specimen test given, results unknown or not obtained (8) No driver present (9) Unknown if specimen test given

OTHER DATA	61. Rollover Initiation Object Contacted
56. Driver's Zip Code	or. Hollover illitiation object contacted
(00000) Driver not present (00001) Driver not a resident of U.S. or territories Code actual 5-digit zip code (99999) Unknown	62. Location on Vehicle Where Initial Principal Tripping Force Is Applied (0) No rollover (1) Wheels/tires (2) Side plane
57. Driver's Race/Ethnic Origin (0) Driver not present (1) White (non-Hispanic) (2) Black (non-Hispanic) (3) White (Hispanic) (4) Black (Hispanic) (5) American Indian, Eskimo or Aleut (6) Asian or Pacific Islander (8) Other (specify):	(3) End plane (4) Undercarriage (5) Other location on vehicle (specify): (8) Non-contact rollover forces (specify): (9) Unknown
(9) Unknown 58. Vehicle Special Use (This Trip) (0) No special use (1) Taxi (2) Vehicle used as school bus (3) Vehicle used as other bus (4) Military (5) Police (6) Ambulance (7) Fire truck or car (8) Other (specify):	 (0) No rollover (1) Roll right - primarily about the longitudinal axis (2) Roll left - primarily about the longitudinal axis (5) End-over-end (i.e., primarily about the lateral axis) (9) Unknown roll direction PRECRASH DATA
(9) Unknown	64. Pre-Event Movement (Prior to
ROLLOVER DATA If GV07 (Body Type) ≠ 1-49, leave GV59-GV63 blank. If GV24 (Rollover) = 0, then GV59-GV63 must equal 0. If GV24 = 9, then GV59-GV63 must equal 9.	(01) Going straight (02) Slowing or stopping in traffic lane (03) Starting in traffic lane (04) Stopped in traffic lane (05) Passing or overtaking another vehicle (06) Disabled or parked in travel lane
59. Rollover Initiation Type (0) No rollover (1) Trip-over (2) Flip-over (3) Turn-over (4) Climb-over (5) Fall-over (6) Bounce-over (7) Collision with another vehicle (8) Other rollover initiation type specify): (9) Unknown rollover initiation type	(07) Leaving a parking position (08) Entering a parking position (09) Turning right (10) Turning left (11) Making a U-turn (12) Backing up (other than for parking position) (13) Negotiating a curve (14) Changing lanes (15) Merging (16) Successful avoidance maneuver to a previous critical event (97) Other (specify):
60. Location of Rollover Initiation	(98) No driver present (99) Unknown
 (0) No rollover (1) On roadway (2) On shoulder—paved (3) On shoulder—unpaved (4) On roadside or divided trafficway median (9) Unknown 	

CODES FOR ROLLOVER INITIATION OBJECT CONTACTED

(00) No rollover (01-30) — Vehicle Number

Noncollision

- (31) Turn-over fall-over
- (33) Jackknife

Collision With Fixed Object

- (41) Tree (≤ 10 cm in diameter)
- (42) Tree (> 10 cm in diameter)
- (43) Shrubbery or bush
- (44) Embankment
- (45) Breakaway pole or post (any diameter)

Nonbreakaway Pole or Post

- (50) Pole or post (\leq 10 cm in diameter)
- (51) Pole or post (> 10 cm but ≤ 30 cm in diameter)
- (52) Pole or post (> 30 cm in diameter)
- (53) Pole or post (diameter unknown)
- (54) Concrete traffic barrier
- (55) Impact attenuator
- (56) Other traffic barrier (includes guardrail) (specify):

- (57) Fence
- (58) Wall
- (59) Building
- (60) Ditch or culvert
- (61) Ground
- (62) Fire hydrant
- (63) Curb
- (64) Bridge
- (68) Other fixed object (specify):
- (69) Unknown fixed object

Collision with Nonfixed Óbject

- (71) Motor vehicle not in-transport
- (76) Animal
- (77) Train
- (78) Trailer, disconnected in transport
- (88) Other nonfixed object (specify):
- (89) Unknown nonfixed object
- (98) Other event (specify):
- (99) Unknown event or object

PRECRASH DATA (Continued) 65. Critical Precrash Event Pedestrian or Pedalcyclist, or Other Nonmotorist (80) Pedestrian in roadway This Vehicle Loss of Control Due To: (81) Pedestrian approaching roadway (01) Blow out or flat tire (82) Pedestrian - unknown location (02) Stalled engine (83) Pedalcyclist or other nonmotorist in roadway (03) Disabling vehicle failure (e.g., wheel fell off) (specify): (specify): (84) Pedalcyclist or other nonmotorist approaching (04) Non-disabling vehicle problem (e.g., hood flew roadway (specify): up) (specify): (85) Pedalcyclist or other nonmotorist—unknown (05) Poor road conditions (puddle, pot hole, ice, etc.) location (specify): (specify): (06) Traveling too fast for conditions Object or Animal (08) Other cause of control loss (specify): (87) Animal in roadway (88) Animal approaching roadway (09) Unknown cause of control loss (89) Animal—unknown location (90) Object in roadway This Vehicle Traveling (91) Object approaching roadway (10) Over the lane line on left side of travel lane (92) Object—unknown location (11) Over the lane line on right side of travel lane (12) Off the edge of the road on the left side (98) Other critical precrash event (specify): (13) Off the edge of the road on the right side (14) End departure (99) Unknown (15) Turning left at intersection (16) Turning right at intersection (17) Crossing over (passing through) intersection For Corrective Actions Attempted see variable GV14 (19) Unknown travel direction (Attemped Avoidance Manuever) Other Motor Vehicle In Lane (50) Stopped 66. Precrash Stability After Avoidance Maneuver (51) Traveling in same direction with lower speed (O) No avoidance maneuver (i.e., lower steady speed or decelerating) (1) Tracking (52) Traveling in same direction with higher speed (2) Skidding longitudinally—rotation less than 30 (53) Traveling in opposite direction (54) In crossover (3) Skidding laterally-clockwise rotation (55) Backing (4) Skidding laterally—counterclockwise rotation (59) Unknown travel direction of other motor vehicle (7) Other vehicle loss-of-control (specify): Other Motor Vehicle Encroaching Into Lane (8) No driver present (60) From adjacent lane (same direction) - over left (9) Precrash stability unknown lane line (61) From adjacent lane (same direction)—over right 9 lane line 67. Precrash Directional Consequences of (62) From opposite direction—over left lane line Avoidance Maneuver (Corrective Action) (63) From opposite direction—over right lane line (0) No avoidance maneuver (64) From parking lane (1) Vehicle stayed in travel lane where avoidance (65) From crossing street, turning into same maneuver was initiated direction (2) Vehicle stayed on roadway but left travel lane (66) From crossing street, across path where avoidance maneuver was initiated (67) From crossing street, turning into opposite (3) Vehicle stayed on roadway, not known if left direction (68) From crossing street, intended path not known travel lane where avoidance maneuver was initiated (70) From driveway, turning into same direction (71) From driveway, across path (4) Vehicle departed roadway (72) From driveway, turning into opposite direction (5) Avoidance maneuver initiated off roadway (73) From driveway, intended path not known (8) No driver present (74) From entrance to limited access highway (9) Directional consequences unknown (78) Encroachment by other vehicle—details unknown *** IF THE CDS APPLICABLE VEHICLE WAS NOT INSPECTED (I.E., GV35=0), ***

DO NOT COMPLETE THE EXTERIOR AND INTERIOR VEHICLE FORMS.

*** IF GV07 DOES NOT EQUAL 01-49, DO NOT COMPLETE *** THE EXTERIOR VEHICLE, INTERIOR VEHICLE, OCCUPANT ASSESSMENT, AND OCCUPANT INJURY FORMS.

Appendix C
NICB V.I.N. Data

VINASSIST Version 1.05

(c) by 1991

Law Enforcement Edition

VIN:6MPCT01Z3M

DIGIT	DESCRIPTION	MEANING
6	Country of Origin	AUSTRALIA
М	Manufacturer	MERC MERCURY
P	Vehicle Type	PASSENGER CAR
С	Restraint System	AIR BAG & ACTIVE BELTS
Т	Line	PASSENGER CAR (IMPORT)
01	Body Style	CAPRI 2 DR CONVERTIBLE
Z	Engine	1.6L I4 EFI TC
3	Check Digit	CHECK DIGIT VALID
M	Year	1991
8	Assembly Plant	AUSTRALIA
	Sequence Number	IN RANGE

******** VIN Passed Test ********

VIN indicates a 1991 MERCURY CAPRI 2 DR CONVERTIBLE

(c) by **(c)**, 1991

VINASSIST Version 1.05

(c) by 1991

Law Enforcement Edition

VIN: 1G2NV69L3GC

DIGIT DESCRIPTION		MEANING
1	Country of Origin	UNITED STATES
G	Manufacturer	PONT GENERAL MOTORS
2	Make	PONTIAC
NV	Line	GRAND AM LE
69	Body Style	4 DR SEDAN
L	Engine	3.OL V6 MFI, FI
3	Check Digit	CHECK DIGIT VALID
G	Year	1986
С	Assembly Plant	MI
	Sequence Number	IN RANGE

******** VIN Passed Test ********

VIN indicates a 1986 GENERAL MOTORS GRAND AM LE

(c) by (a), 1991

Appendix D

Airbag Supplement

Dup. Cols. 1-8 Module A B	Form	nat <u>0</u> 1	AIRBAG SUPPLEMENT	AB
ACCIDENT SUMMARY		AIRBAG YEH	ICLE INSPECTION	
ACCIDENT DATE 192		DATE VEH.	INSPECTED 1	193
POLICE INVESTIGATED (1,2,9)*	1	REASON VEH	ICLE NOT INSPECTED	
City County GENERAL LOCALITY (1) Freeway, Limited Access (2) Urban (City)	4	(2) Cannot (3) Repair	tion Completed be Located** ed or Destroyed** or impounded**	1
(3) Urban-Rural (mixed)(4) Rural, Fields		IMPACT DAT	A OBTAINED	4
CONFIGURATION (First Harm) (0) Struck Object or Pedestrian (1) Rear-End (2) Head-On (3) Rear-to-Rear (4) Angle (5) Sideswipe-Same Direction (6) Sideswipe-Opposite Direct. (7) NonCoil:eg Fell from Veh (8) NonImpact Deployment (9) Unknown FIRE INVOLVED (0) None (1) AirBag Vehicle (2) Other Vehicle (3) Both Vehicles (9) Unknown NUMBER: VEHICLES INVOLVED (8)=8 or more PERSONS INVOLVED INJURED PERSONS MAXIMUM AIS IN ACCIDENT	4 0 2334	(0) No Dat (1) CDC On (2) Crush (3) Trajec (4) CDC an (5) CDC an (6) Crush (7) CDC, C BASIS OF D (0) Not Co (1) CRASH (2) CRASH (3) Missin (4) Yieldi (5) Unknow (6) One Ve (7) Collis (8) Insuff VEHICLE H HAS AIRBAG ANY PRIOR	a Obtained ly Profile Only tory Data Only d Crush Profile d Trajectory and Trajectory rush & Trajectory ELTA-V mputed (Unknown Why) - Damage Only - Damage+Trajectory g Vehicle Algorithm ng Object Algorithm n Basis hicle Beyond Scope ion Beyond Scope ion Beyond Scope icient Data ISTORY VEHICLE BEEN IN IMPACTS (1,2,9)*	1 2
OTHER VEHICLE: MAXIMUM AIS	7	BEEN PERF	ORMED ON SYSTEM(1,2,9)	*14
PRIME/DEPLOY IMPACT w AB VEH: EVENT NUMBER		*Describe:		
coc OL-BZEW-2				
TOTAL DELTA-V		AIRBAG YEH	ICLE: FLEET PRIVATE C	<u>) NNE</u>
Model Year, Make, Model, Body Ty	pe:	v	IN GMPC	
X6 BATIAC GRAND AM			EAGE	
* (1)=Yes, (2)=No, (9)=Unknown	95	DRA	FT - 1 / 1 /85	

SYSTEM READINESS LAMP (In Instrument Cluster)		AIRBAG VEHICLE FIRST HARMFUL EVENT	13
PRE-IMPACT LAMP CONDITION (1) Functioning/ProvedOut (2) Inoperative (9) Unknown	9	(01) Fire or explosion (02) Immersion (03) Gas Inhalation (04) Fell from vehicle (05) Injured in vehicle (06) Other noncollision (specify):	
DRIVER'S REPORT OF PRE-IMPACT FLASHING (00) No Flashing Reported (01) Continuous Flashing (02) >Number of Flashes (11) (12) Constant Light (19) Flashing, Unkn Number (88) Not App (system removed) (99) Unknown PERIOD OF PRE-IMPACT FLASHING (0) No Flashing (1) Same Day as Impact	0	(07) Overturn (08) Jackknife with intraunit damage Collision With: (09) Pedestrian (10) Pedalcyclist (11) Railway train (12) Animal (13) Motor vehicle in transport (same roadway) (14) Motor vehicle in transport (other roadway) (15) Parked motor vehicle (16) Other type nonmotorist (specify): (17) Thrown or falling object (18) Boulder Collision with Fixed Object: (20) Building (21) Impact attenuator/Crash Cushion (22) Bridge pier or abutment	
(2) Prior Day (3) Prior Two Days (4) Prior Week (5) Prior Month (6) Over One Month (9) Unknown POST-IMPACT LAMP CONDITION (1) Functioning/ProvedOut (2) Inoperative (9) Unknown POST-IMPACT FLASHING (00) No Flashing (01) Continuous Flashing (02) >Number of Flashes (11) (12) Constant Light (19) Flashing, Unkn Number (88) Not App! (removed) (99) Unknown	9 99	(23) Bridge parapet end (24) Bridge rail (25) Guardrail (26) Concrete traffic barrier (27) Median barrier (28) Other longitudinal barrier (specify): (29) Highway/Traffic sign post (30) Overhead sign support (31) Luminaire/Light support (32) Utility pole (33) Other post, pole, or support (specify): (34) Culvert (35) Curb (36) Ditch (37) Embankment-earth (38) Embankment-rock, stone or concrete (39) Fence (wooden, wire, chain link, etc.) (40) Wall (stone, rock, metal, etc.) (41) Fire hydrant (42) Shrubbery (43) Tree (44) Other fixed object (specify): (45) Pavement surface irregularity (pothole, grooved, grates) (99) Unknown	

AIRBAG SYSTEM DAMAGE

CODES:

- (1) Yes, Damaged*
- (2) No, intact
- (8) Not App. (Removed)
- (9) Unknown

AIRBAG MODULE

SENSORS: Left Front

Center Front

Right Front

Rear, Cowi

DIAGNOSTIC MODULE

WIRING

KNEE DIVERTER

INDICATION OF DISCONNECTED OR LOOSE ELECTRICAL CONNECTORS

CONDITION OF DEPLOYED BAG

- (1) Bag Intact
- (2) Split or Torn*
- (3) Cut by Object in impact*
- (4) Cut after Accident*
- (5) Other (e.g., burned)*
- (8) N/A (not deployed)
- (9) Unknown

*DESCRIBE System and Bag Damage:

1") TEAR WAS

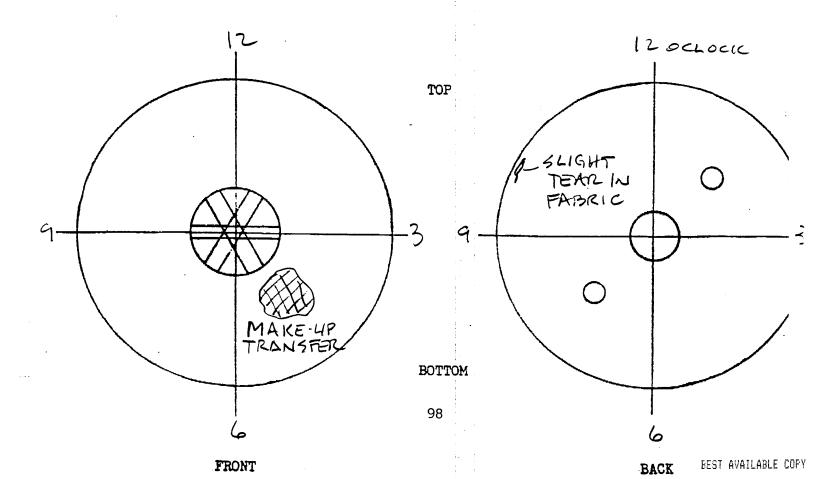
PRESENT ON THE BACK

DUREAGE OF THE

10 O'CLOCK

NOTE DAMAGE AND CONTACT MARKS ON AIRBAG DIAGRAMS BELOW:

199992222



BEST AVAILABLE COPY OCCUPANTS/DRIVER AIRBAG SUPPLEMENT OCCUPANTS of AIRBAG CAR NOTES: NUMBER OF OCCUPANTS IN VEHICLE (B) 8 or more NUMBER OF INJURED PERSONS MAXIMUM AIS IN AIRBAG VEHICLE No Injury (0) (1-6) AIS Severity Injured, Unknown Severity (9) Unknown DRIVER AGE 25 SEX 2 NUMBER OF DRIVER INJURIES SOURCE OF BEST INJURY DATA (0) Not injured (1) Autopsy w/wo med. records (2) Hospital Medical Records (3) Emergency Room only (4) Private physician, Clinic (5) Lay Coroner Report(6) EMS Personnel (7) Interviewee (8) Police (9) Unknown MAXIMUM AIS BY BODY REGION REGION MAX AIS CONTACT Head/Neck/Face Chest Abdomen Leg/Hips Other (Arms) DRIVER MAXIMUM EJECTION: Extent

Portal

DRIVER-PASSENGER		AIRBAG	SUPPLEMENT	AB-6
DRIVER BELT USAGE: (1) Used	(2) Not Use	d (9) Unknown	2
Evidence:	:			
DRIVER POSTURE: Any Commen	ts Recorded (1) Yes, (2) No	
Describe driver's posture and posi on head, torso, buttocks, legs and Did driver brace before crash? De	feet. Also no	ncluding te hand	specific co and arm pos	omment ition.
THE DRIVER STATED THAT SH				
DRIVER'S SEXT TO THE R				
THE VEHICLE WHEN IT WA	s Smuck	3y TH	= GRANDA	tm.
DRIVER FOREIGN OBJECTS: Comments R	ecorded (1) Ye	s, (2)	No	
Was driver wearing contact lenses object at the time of the impact (cigarette, etc.)? Did any lenses,	backages on la	n nine	food bott	م ا
				
DRIVER COMMENTS: Comments R	ecorded (1) Ye	es, (2) N	lo	
Was the driver aware that the vehi restraint system? Did driver offe Did the driver comment on the airb	r any comments ag as a restra	on smok iint syst	e, noise, e em? Descril	tc.? be:
THE DRIVER STATED THAT TH	= HIRRAR	DEPLO	TED PRIOR	2
TO ANY IMPLETS. AS - 1+=				
	:			
	:			
PASSENGER-AIRBAG CONTACT (1) Ye	s, (2) No, (9)	ปก็หกอพก		2
Describe:				
				

Appendix E
CRASH 3 Output



U.S. Department of Transportation

CRASHPC PROGRAM SUMMARY

National	Highway	Traffic	Safety
A desimina	i		

(All Measurements In Metric)

NATIONAL ACCIDENT SAMPLING SYSTEM

Administration					CRAS	HWORTHINESS	DATA SYSTEM
Identifying Title	42.55	•	~ 1			a g	Ä
NC SI Primary	93-05 Case NoStratum		ident Event	_(ate (Month, da	ay, year) of Run	4
Sampling Unit			uence No.				
CRASHPC Vehicle Id	entification	44-0		0.0	~ .		ı
Vehicle 1	71	MERCUR		CAPI			1 2
Vehicle 2	Year	PONTA Make	<u> </u>	G16/67	Model		NASS
						·	Veh. No.
		ENERAL INF	ORMAT	ION			
Size	VEHICLE I	1	C:		VEHICLE 2	2	7
Weight		. —	Size Weight				
1082+ 48 +	0 = 1 1 3	∅ kg	1197 -	+ 78 +	O =	17-7	5 kg
•	Cargo		Curb	Occupant(s)	Cargo		
CDC	OLKZE OD OZ	WL	CDC		121	<u> </u>	<u>w3</u>
PDOF (-180 to +180	o) <u>o</u> 5	Ľ <mark>Q</mark> ,°		180 to +18	30)	<u>8 0 </u>	
Stiffness		+	Stiffness	S			
		CENE INFO	RMATI	ON			
Rest and Impact Pos	itions [] No, Go To	Damage Infor	mation	[] Yes			·
,	VEHICLE 1	•••••••••••••••••••••••••••••••••••••••	***************************************		VEHICLE 2	2	
Rest	X	. m	Rest		x		. m
Position	Υ	_ · ··· m	Position		Υ _		m
	PSI	- <u>-</u> •			PSI		°
<u>Impact</u>	x	. m	<u>I</u> mpact		X		. m
Position	Y	-	Position		^ _ Y		. ' ''' . m
	PSI	-· ···			PSI		· •
Slip Angle(-180 to +	-180)	o	Slip Ang	gle (-180 to			
		VEHICLE	MOTION	V			
Sustained Contact	[] No [] Yes						
	VEHICLE 1				VEHICLE 2	2	
Vehicle Rotation	I I No	[] Yes	Vehicle I	Rotation		[] No	[] Yes
Rotation Stop Be	***************************************	[] Yes	*******************************	ation Stop B	efore Rest	[] No	[] Yes
End of Rotation Position	х	m	End	of Rotation	х _		m
1 USILIOII	Υ	m	ruan	tion	Υ _		m
	PSI				PSI		°
Curved Path	I l No	I] Yes	Curved F	Path		[] No	[] Yes
Point on Path				t on Path			2
x	m Y	· m	Х_		m	Y	<u> </u>
Rotation Direction	[] None [] CW [J CCW	Rotation	Direction	[] None	I ICW I	1 CCW
Rotation >360°	[] No [] Yes		Rotation	n >360°	[] No	[] Yes	

National Accident Sampling System-Crashworthiness Data System: CRASHPC Program Summary

FRICTION	INFORMATION		TRAJECTOR	RY INFORMATIO	N
Coefficient of Friction			Trajectory Data []No []Yes	
Rolling Resistance Op			If No, Go To Damage	Information	
Troming resistance of	7(1011		Vehicle 1 Steer Angle		
Vehicle 1 Rolling	Resistance		<u> </u>		0
	RF		LR	° RF • RR	o
1	RR				
			Vehicle 2 Steer Angle	es	
Vehicle 2 Rolling	Resistance		LF		o
LF	RF		LR		
LR	RR				
			Terrain Boundary []No []Yes	
			First Point		
			X m	Y	m
			Second Point		
			X m	Y	m
			Secondary Coefficien	t of Friction	
	DA	MAGE IN	IFORMATION		
\	/EHICLE 1		V	EHICLE 2	
Damage Length	L	cm	Damage Length	, L	cm
Crush Depths	C ₁	cm	Crush Depths	C ₁	cm
	C ₂	cm		C ₂	cm
	C ₃			C ₃	cm
	C ₄			C ₄	cm
	C ₆			С _в	
	C ₆	cm		C _e	cm
Damage Offset	D +	cm	Damage Offset	D ±	cm
IF THIS COMMON IN	IPACT WAS WITH A MO	TOR VEHICL	E <i>NOT IN TRANSPORT,</i> FILL	. IN THE INFORMATION	N BELOW.
Model Year:			The Weight, CDC, Scen	e Data and Damage in	nformation
5			for this vehicle should I	_	
7					
1					
		_			
Complete a	and ATTACH the appro	priate vehic	ele damage sketch and din	nensions to the Form	
		•			

SUMMARY OF CRASHPC RESULTS USING DAMAGE

NCSI 93-05

SPEED CHANGE (DAMAGE)

 VEHICLE #1
 24 KPH (15 MPH)

 TOTAL
 24 KPH (15 MPH)

 LONGITUDINAL
 -21 KPH (-13 MPH)

 LATITUDINAL
 -12 KPH (-8 MPH)

 PDOF ANGLE
 30 DEGREES

ENERGY DISSIPATED = 10471 JOULES (7722 FT-LB)

'EHICLE #2

TOTAL 22 KPH (13 MPH)
LONGITUDINAL -21 KPH (-13 MPH)
LATITUDINAL 4 KPH (2 MPH)
PDOF ANGLE -10 DEGREES

ENERGY DISSIPATED = 67442 JOULES (49736 FT-LB)

VEHICLE #2

DAMAGE DATA

VEHICLE #1

	· · · · · · · · · · · · · · · · · · ·	
HIZE CATEGORY	<u>i</u> 1	3 3
VEHICLE WEIGHT	1130 KGS (2491 LBS)	1275 KGS (2811 LBS)
DDC WEIGHT	01RZEW2	12FZEW3
'DOF ANGLE	30 DEGREES *	-10 DEGREES
CRUSH LENGTH	0 CM. (0 IN.) *	0 CM. (0 IN.) *
C1	0 CM. (0 IN.) *	0 CM. (0 IN.) *
	0 CM. (0 IN.) *	0 CM. (0 IN.) *
	O CM. (O IN.) *	0 CM. (0 IN.) *
C4	0 CM. (0 IN.) *	0 CM. (0 IN.) *
:5	0 CM. (0 IN.) *	O CM. (O IN.) *
- :6	0 CM. (0 IN.) *	0 CM. (0 IN.) *
D	0 CM. (0 IN.) *	0 CM. (0 IN.) *
ייי	-79 CM. (-31 IN.) *	46 CM. (18 IN.) *
		(* INDICATES DEFAULT VALUE)

DIMENSIONS AND INERTIAL PROPERTIES

	VEHICLE #1	VEHICLE #2
CG TO FRONT AXLE CG TO REAR AXLE TRACK	115 CM. (45 IN.) 122 CM. (48 IN.) 130 CM. (51 IN.)	130 CM. (51 IN.) 141 CM. (56 IN.) 150 CM. (59 IN.) 228 CM. (90 IN.)
CG TO FRONT OF VEH CG TO REAR OF VEH CG TO SIDE OF VEH COMENT OF INERTIA VEHICLE MASS	193 CM. (76 IN.) -213 CM. (-84 IN.) 77 CM. (30 IN.) 5894 KGS (12994 LBS) 3 KGS (6 LBS)	-270 CM. (-106 IN.) 92 CM. (36 IN.) 11020 KGS (24293 LBS) 3 KGS (7 LBS)

